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FIGURE 1

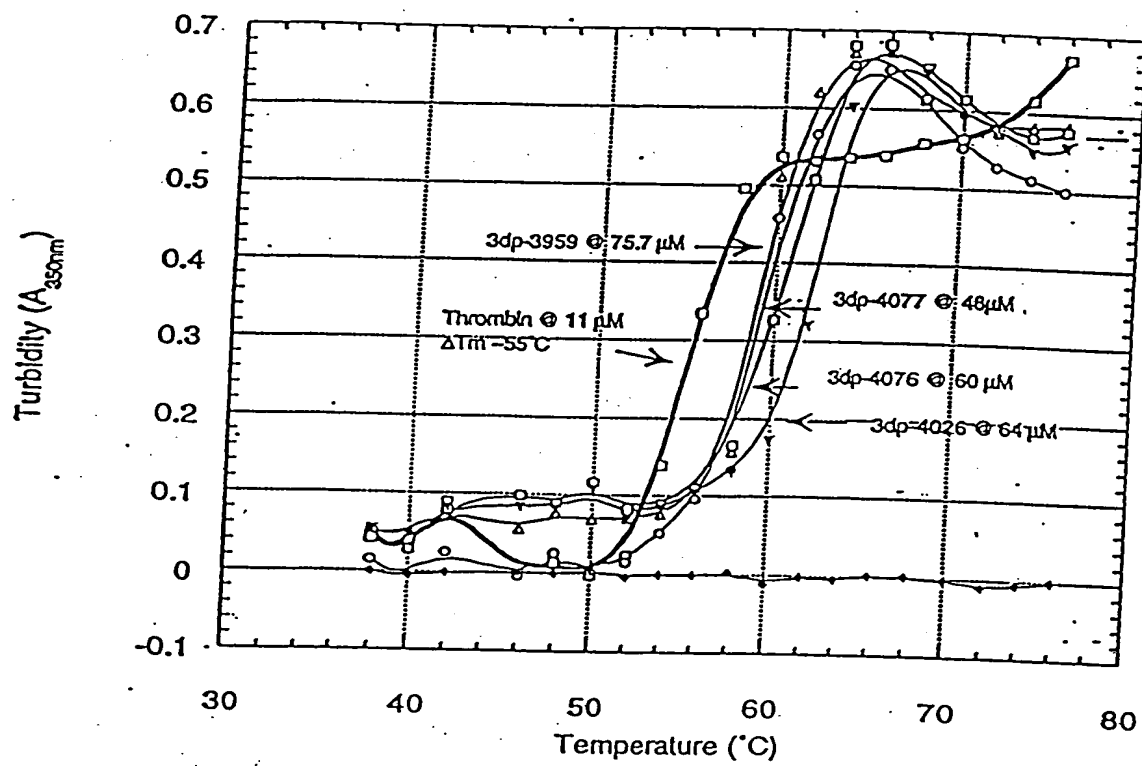


FIGURE 2

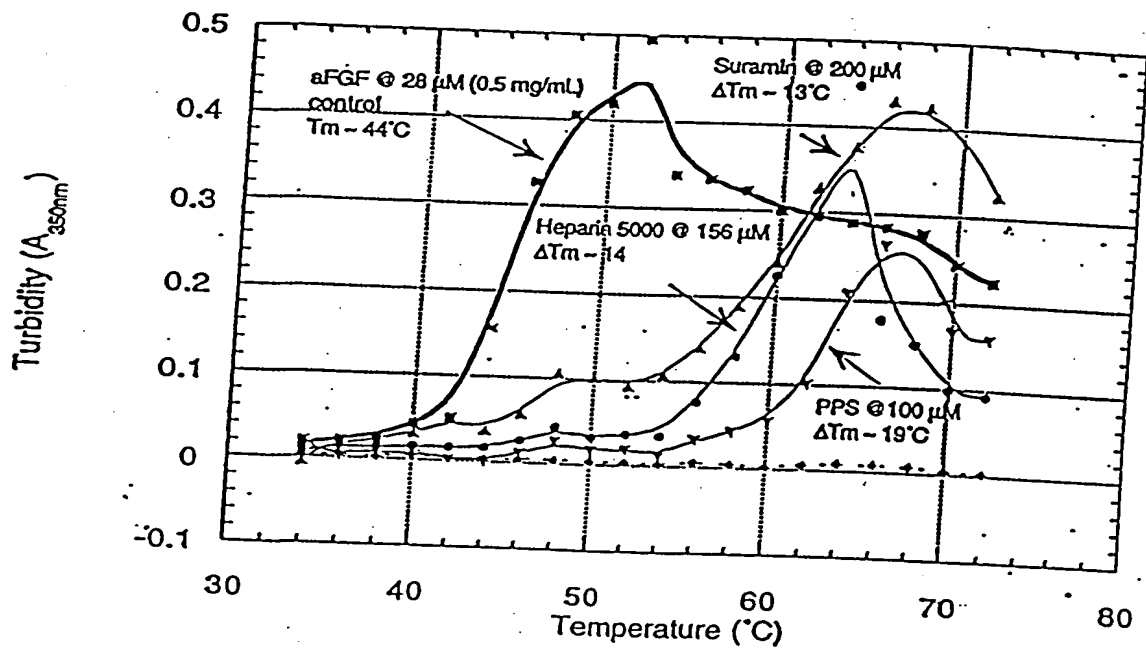


FIGURE 3

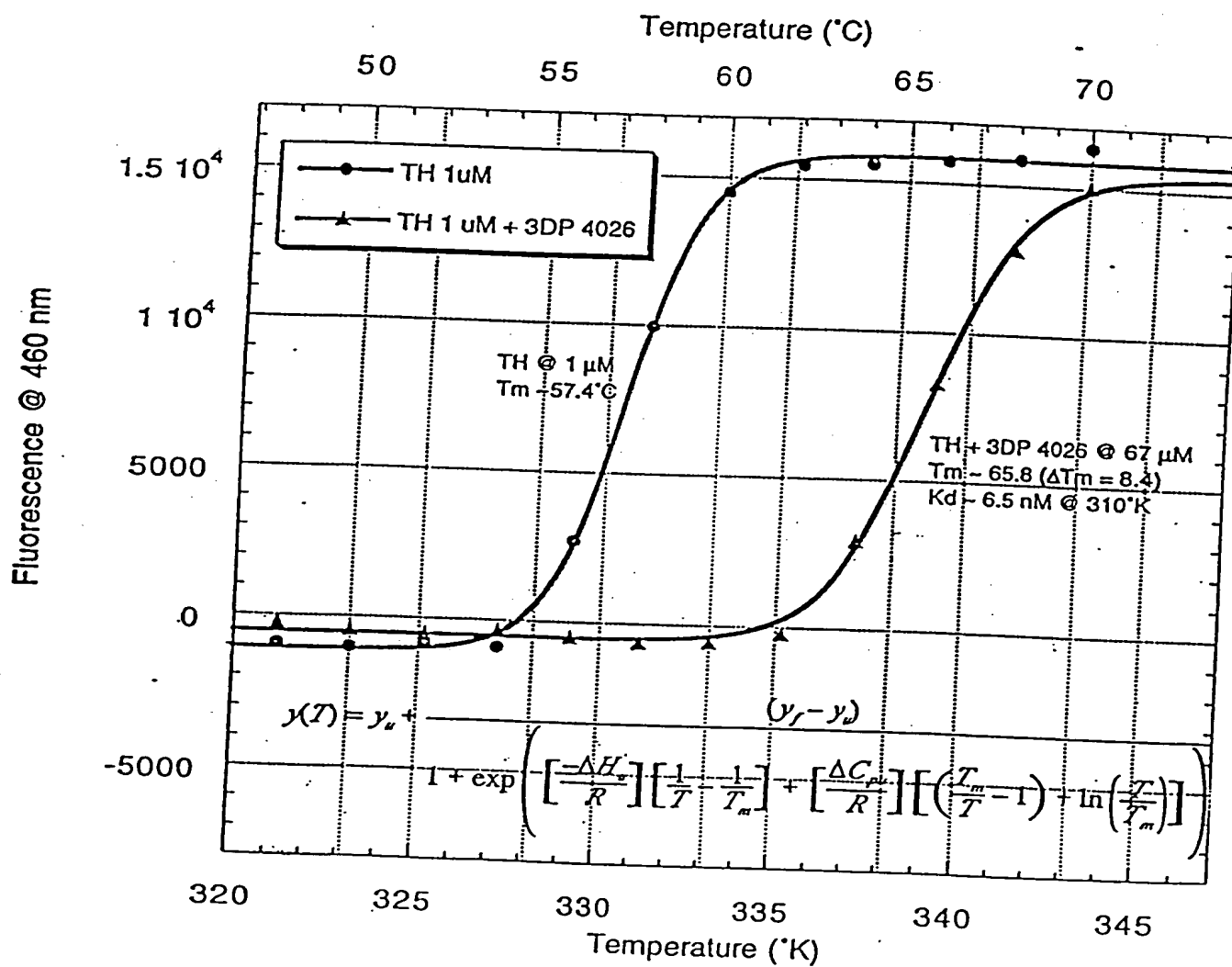
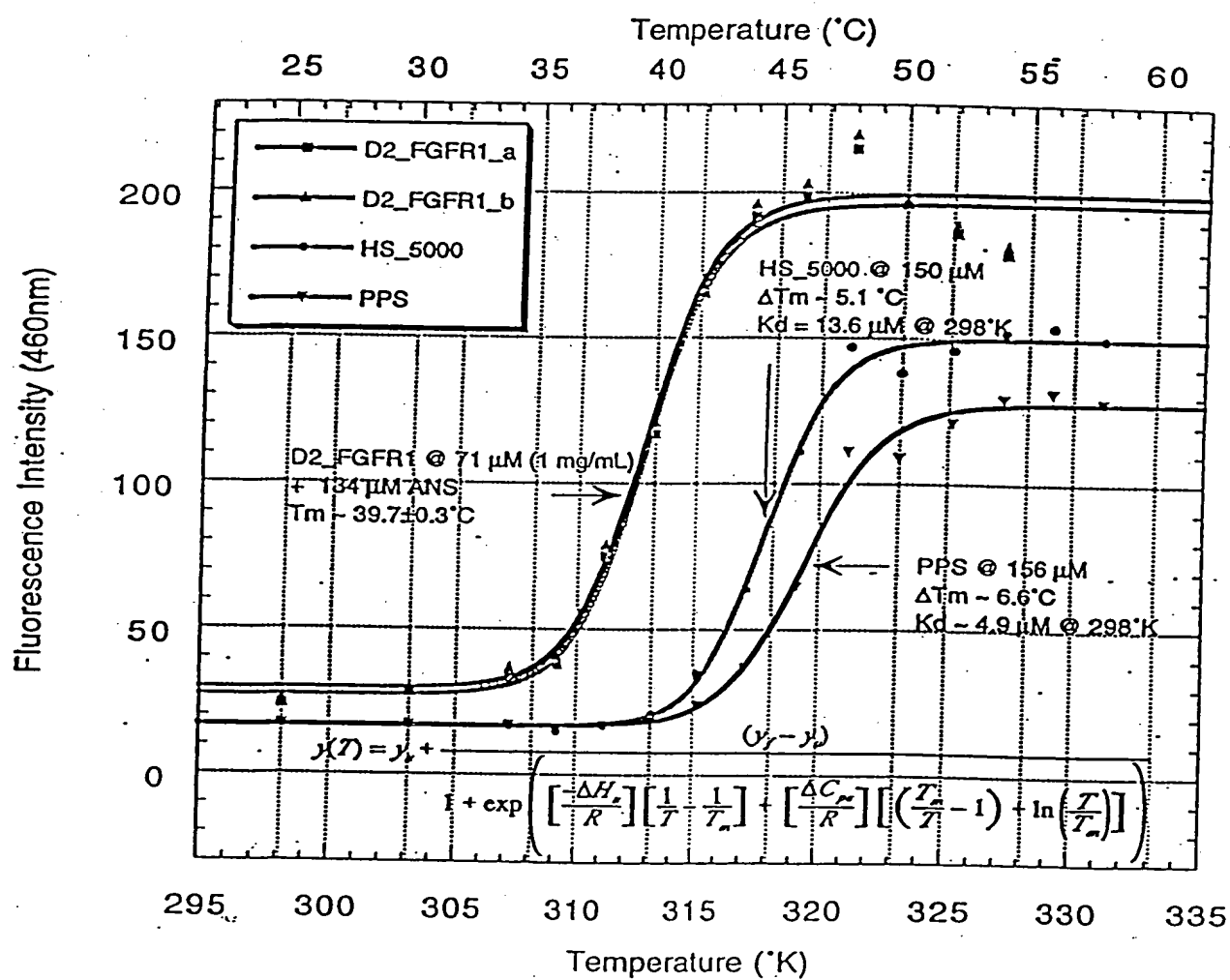


FIGURE 4



# FIGURE 5

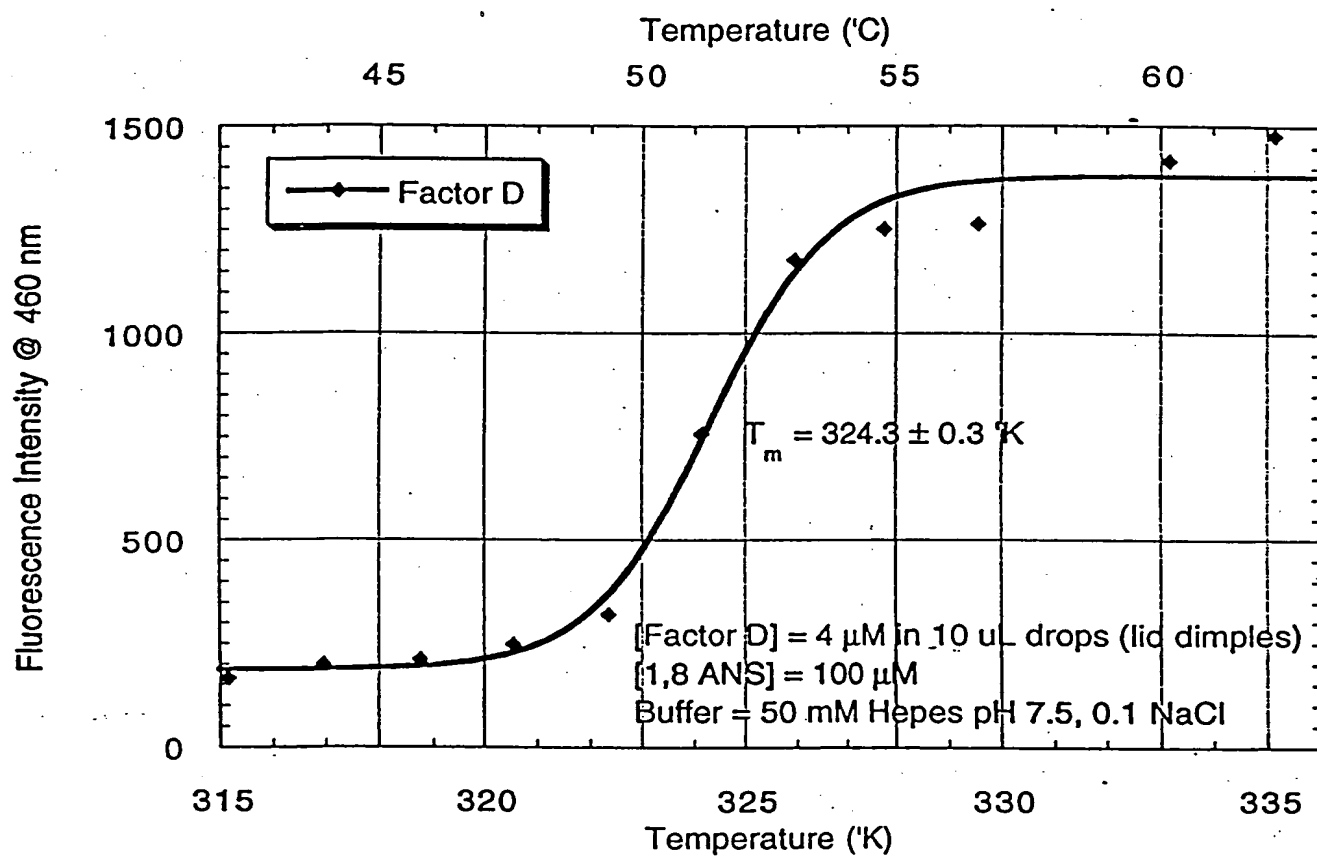


FIGURE 6

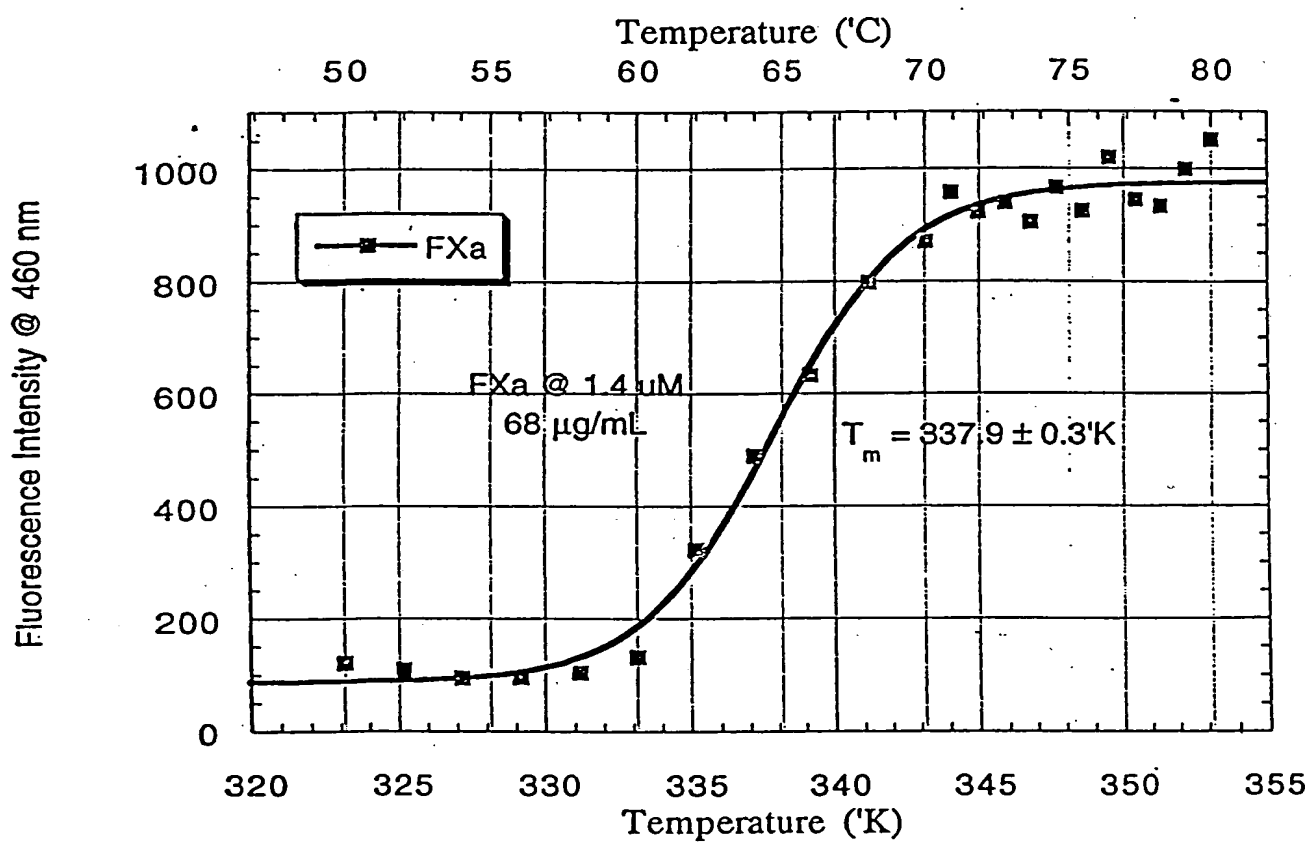
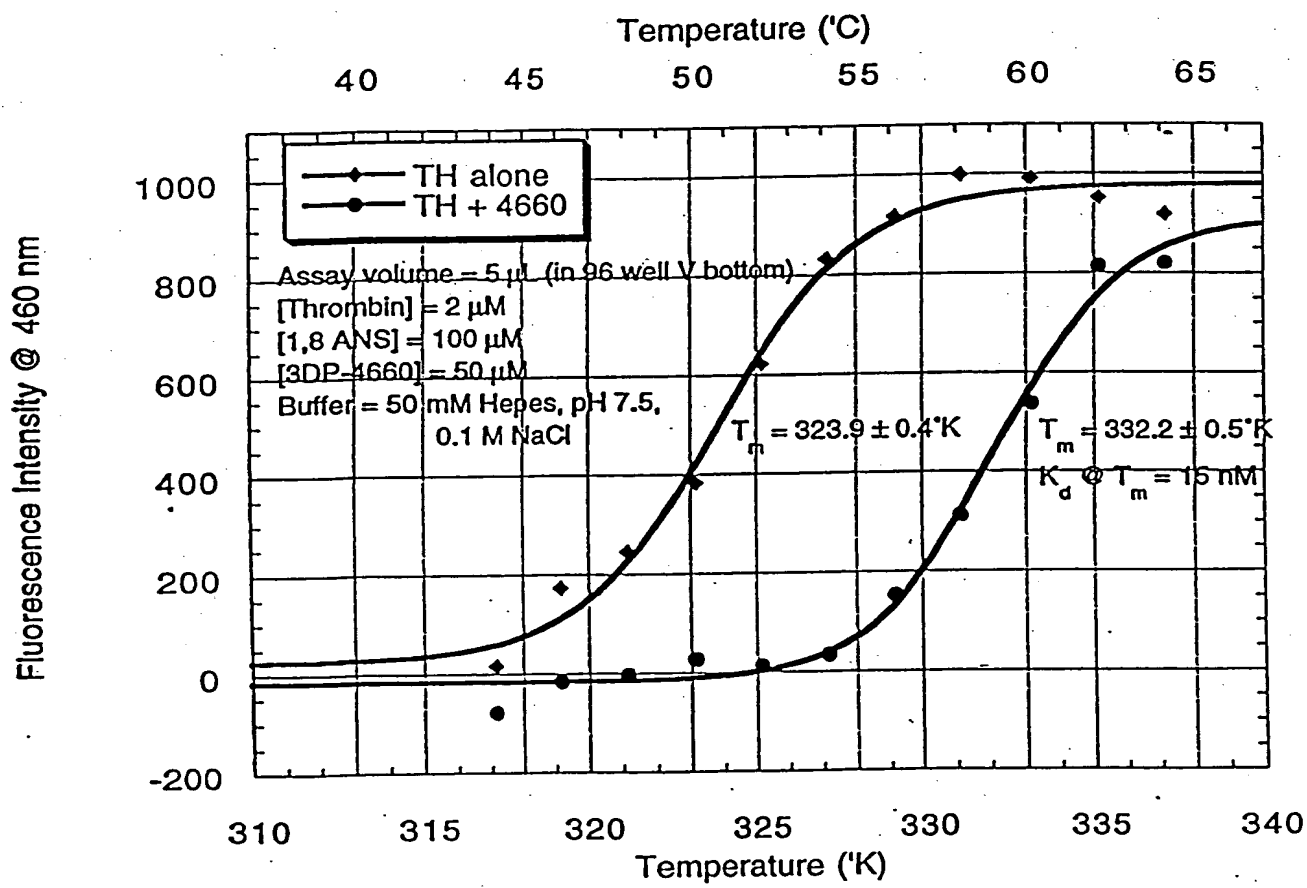


FIGURE 7





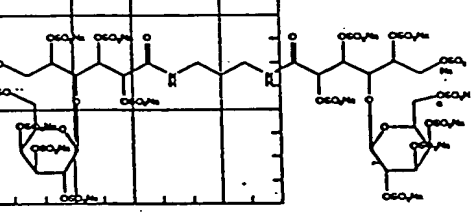


FIGURE 9

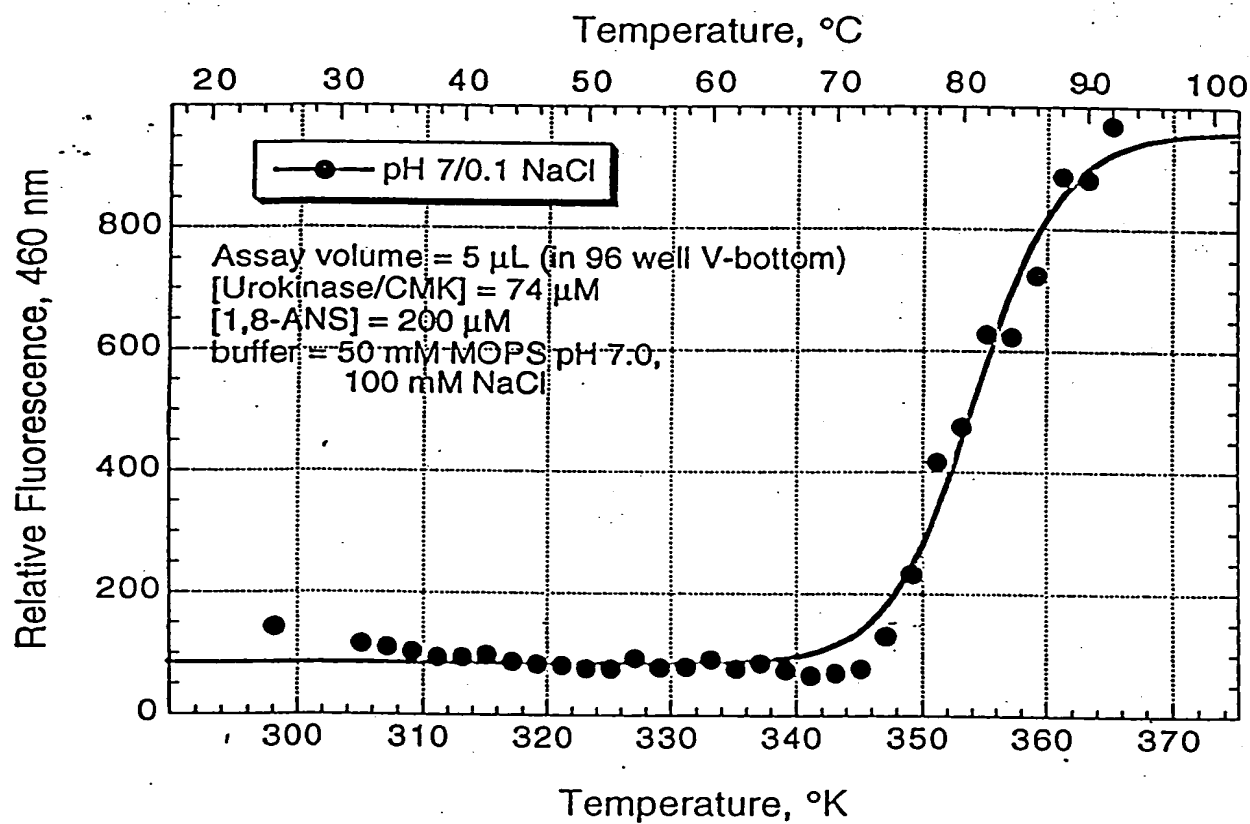


FIGURE 10

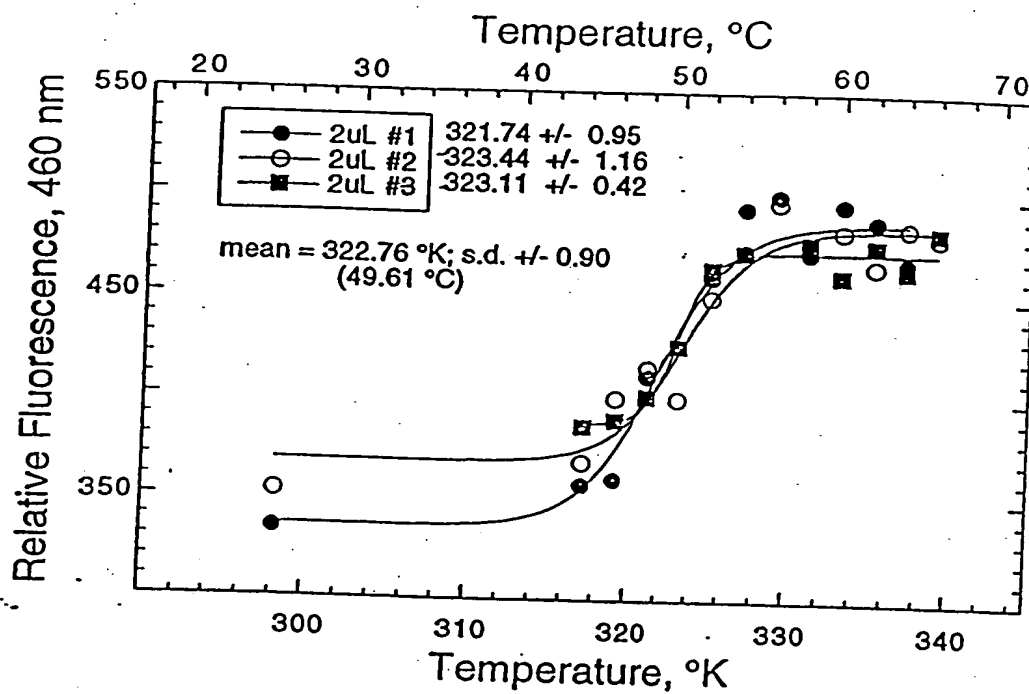


FIGURE 11

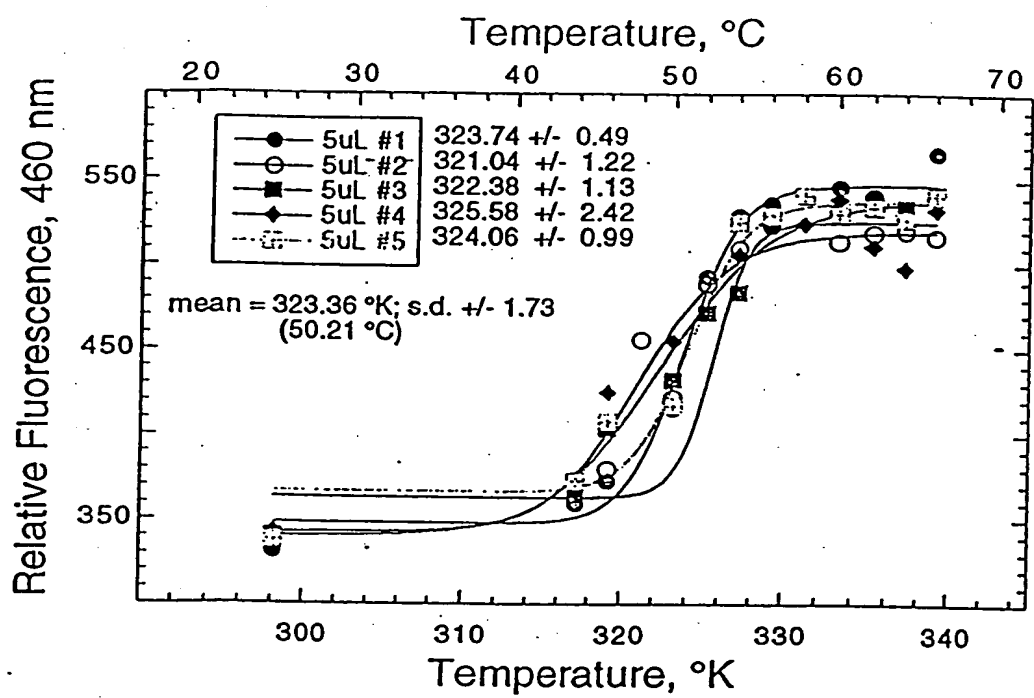


FIGURE 12

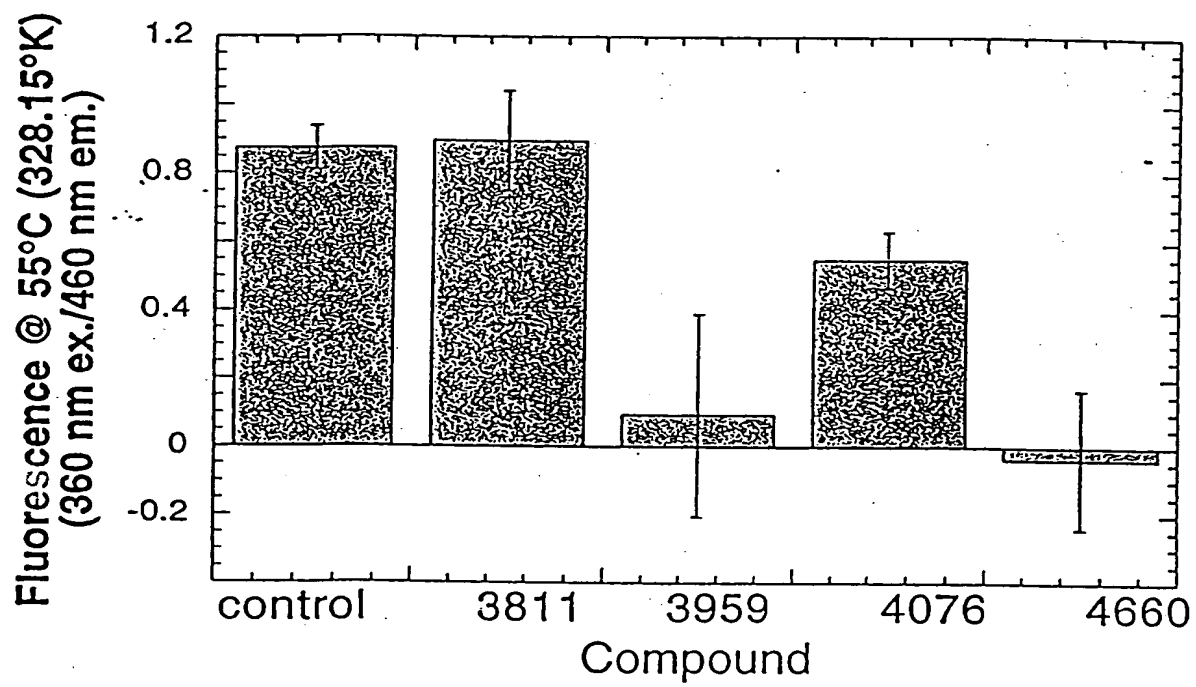


FIGURE 1-3

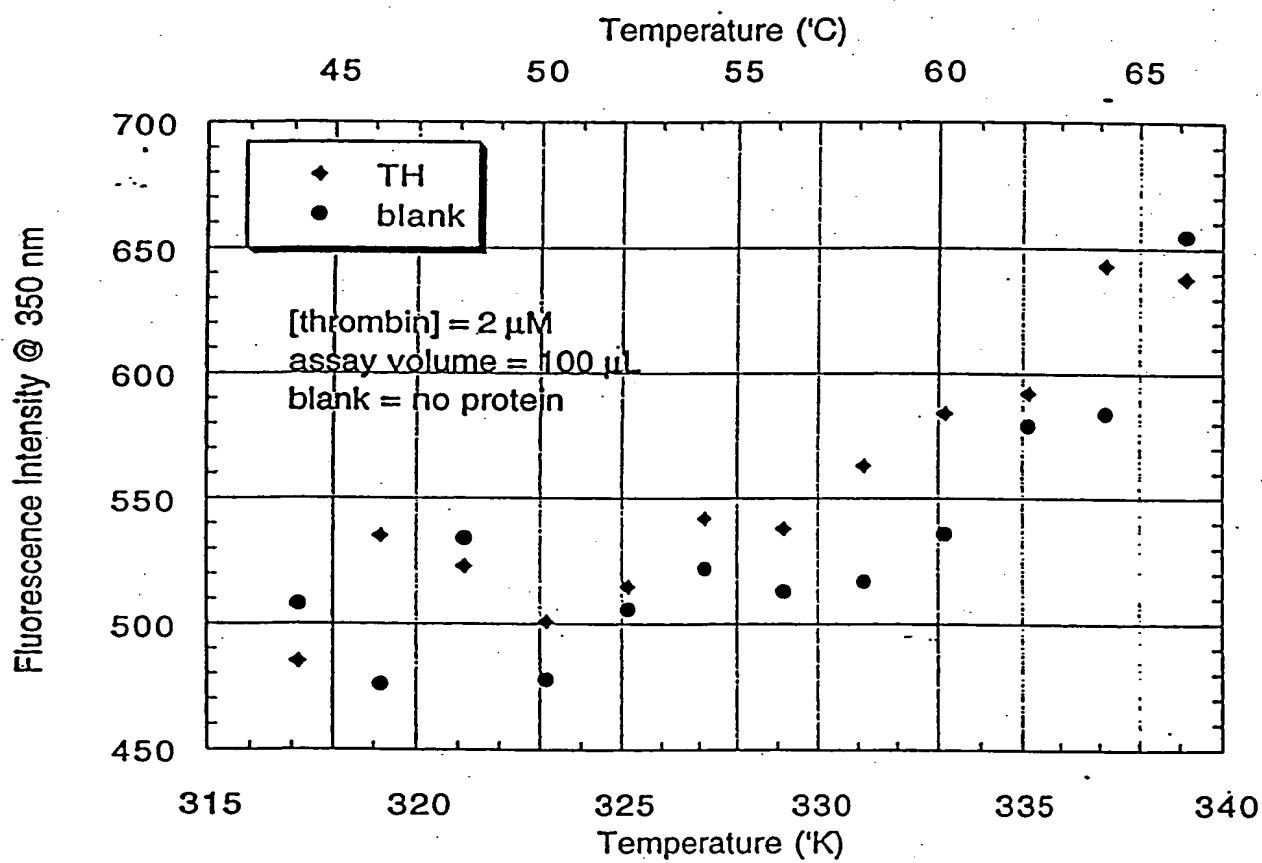


FIGURE 14

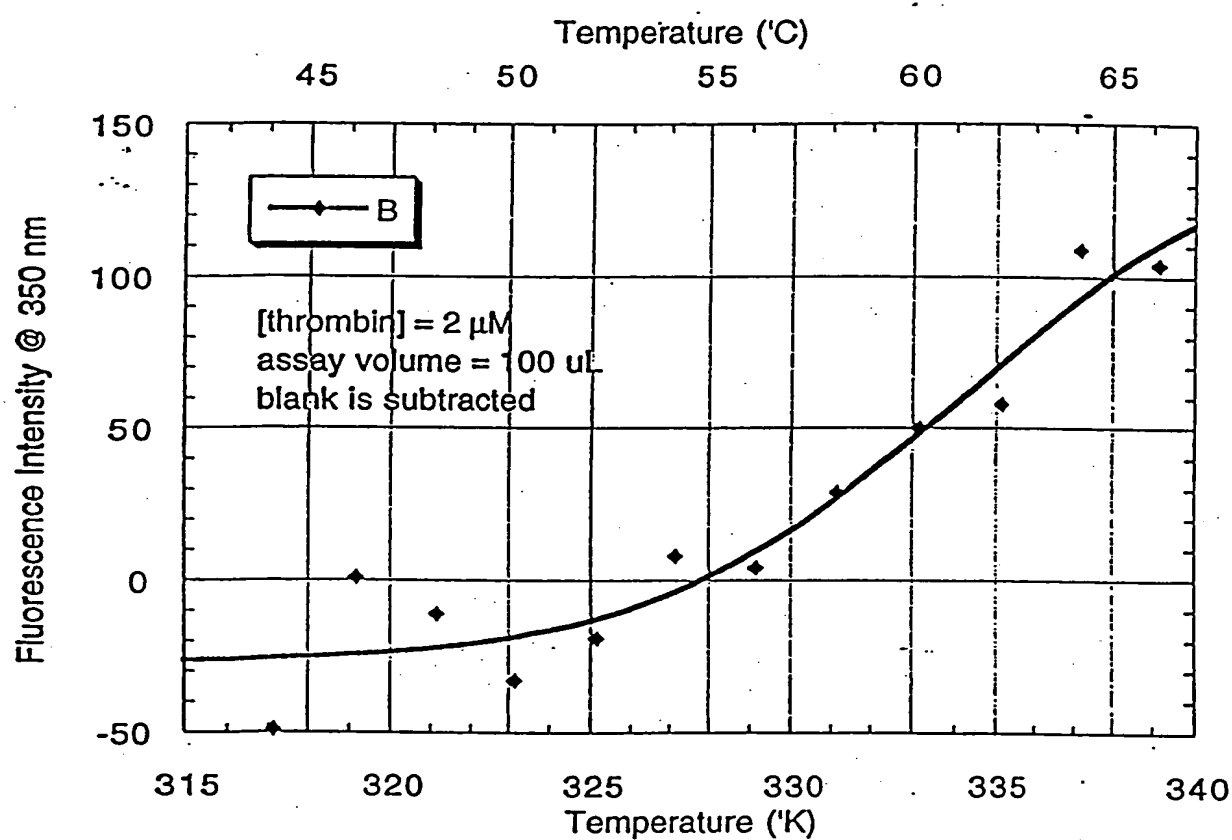


FIGURE 15

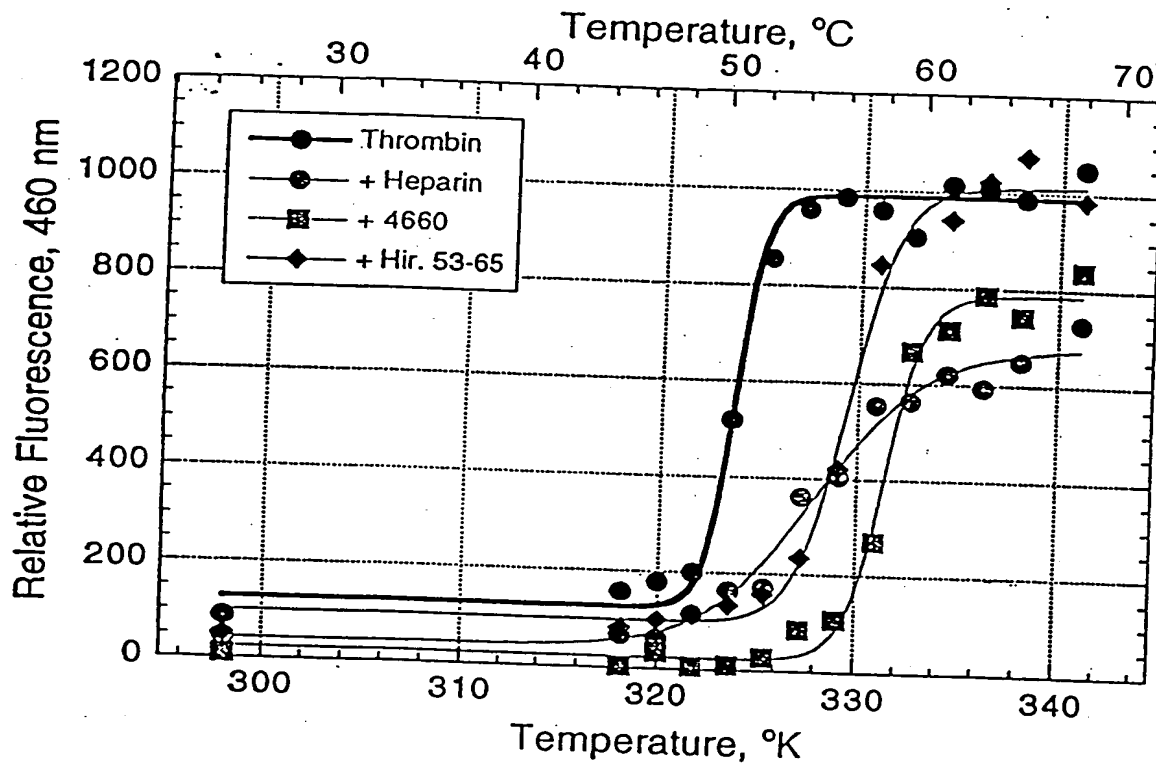




FIGURE 16

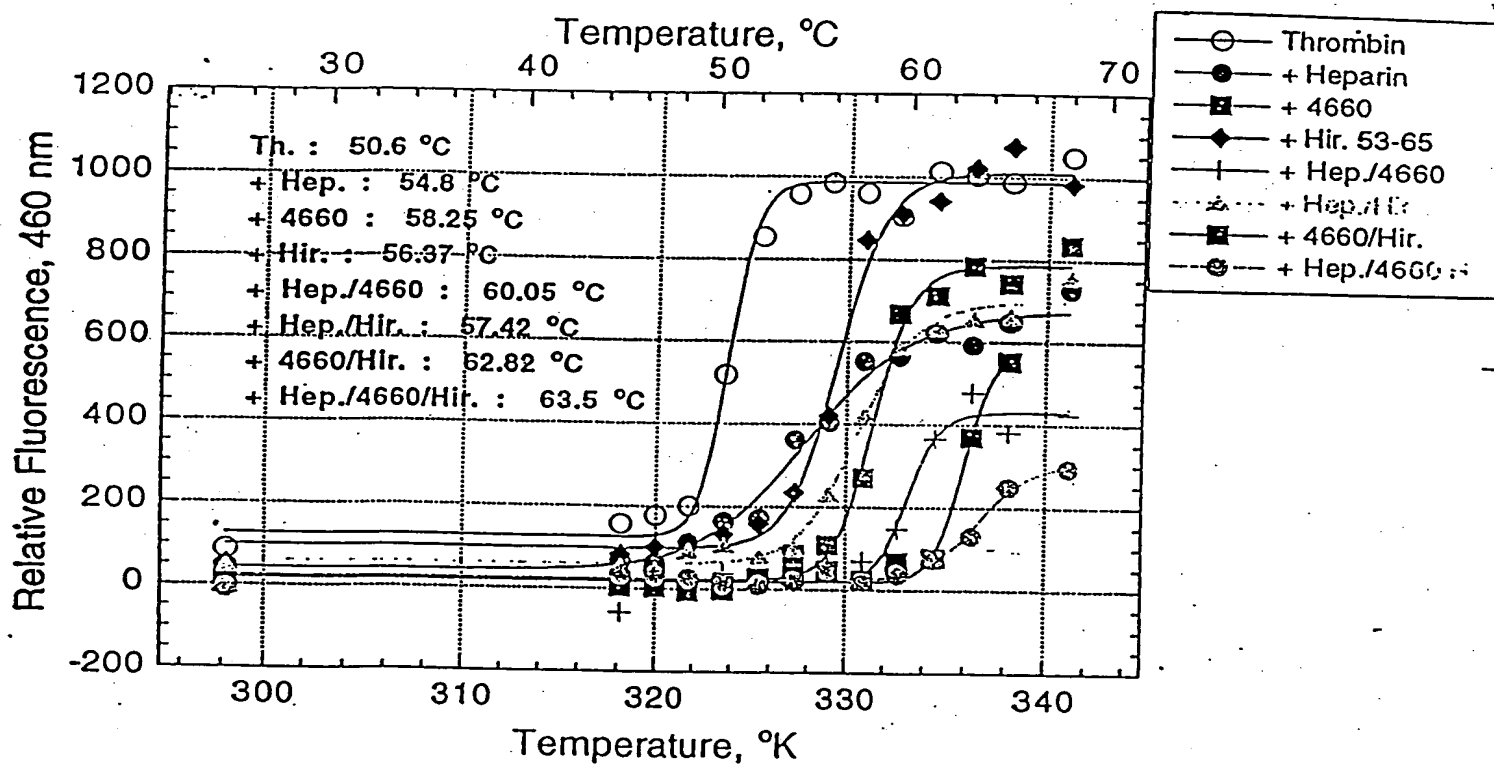


FIG. 17A

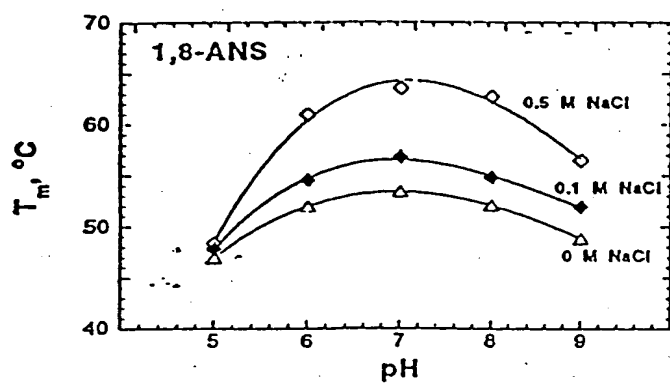


FIG. 17B

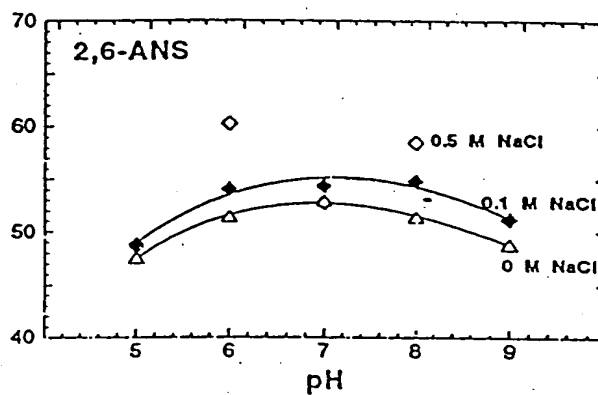


FIG. 17C

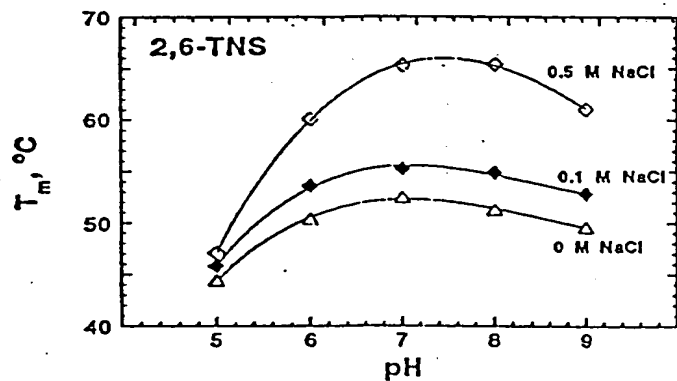


FIG. 17D

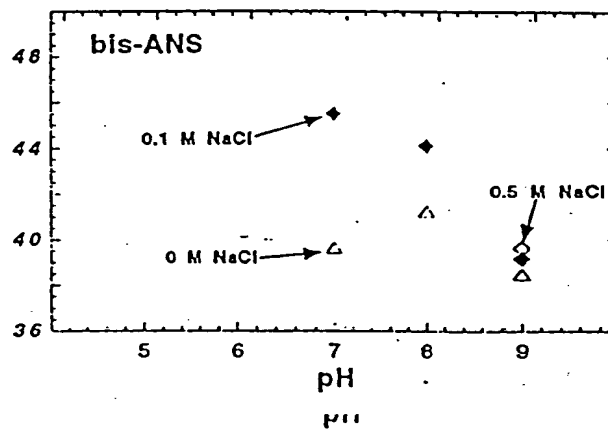


FIGURE 18

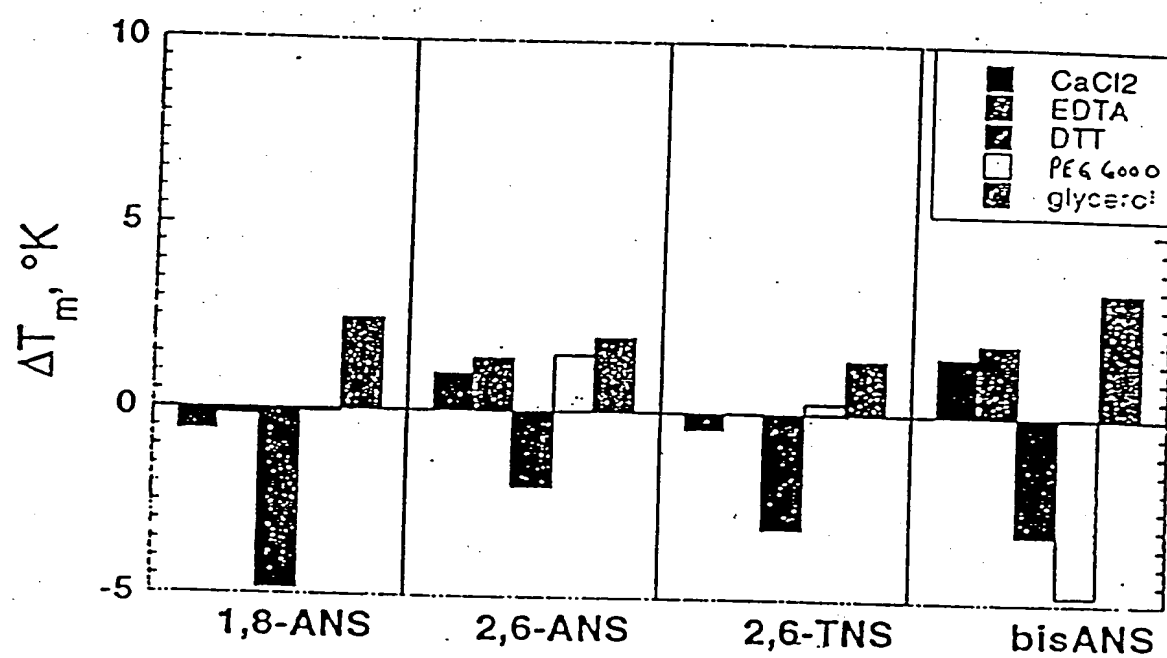


FIGURE 19

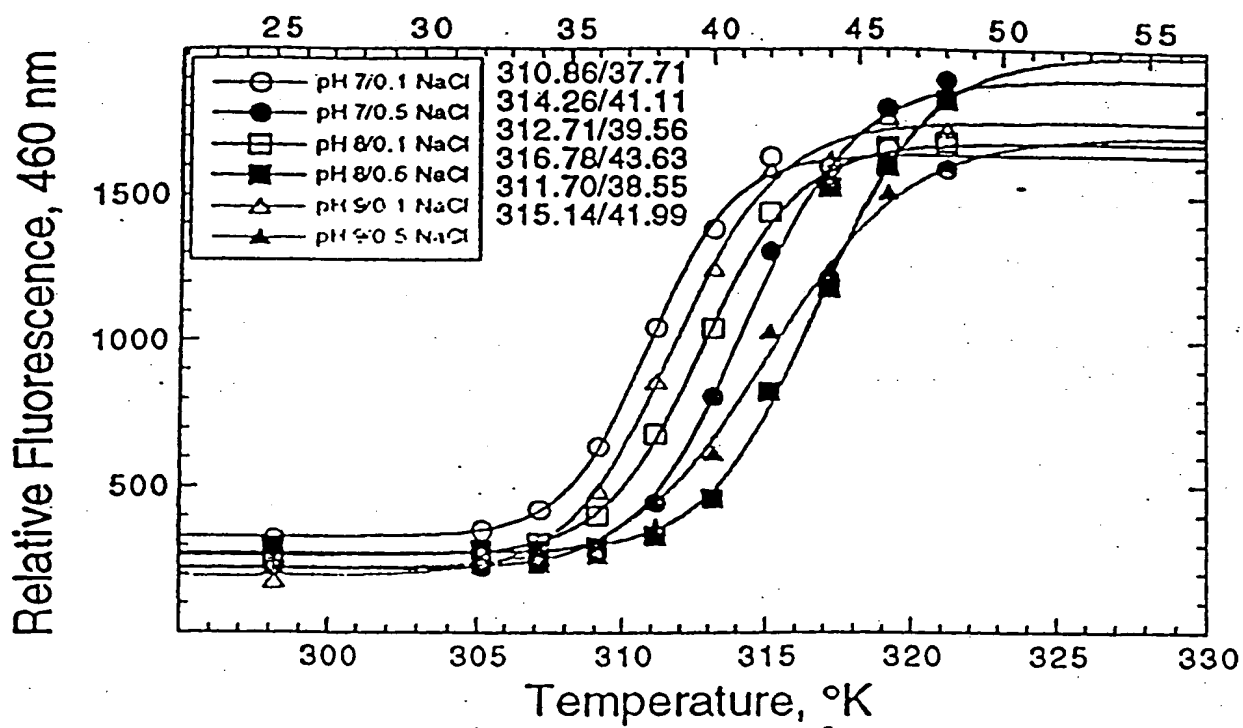


FIGURE 20

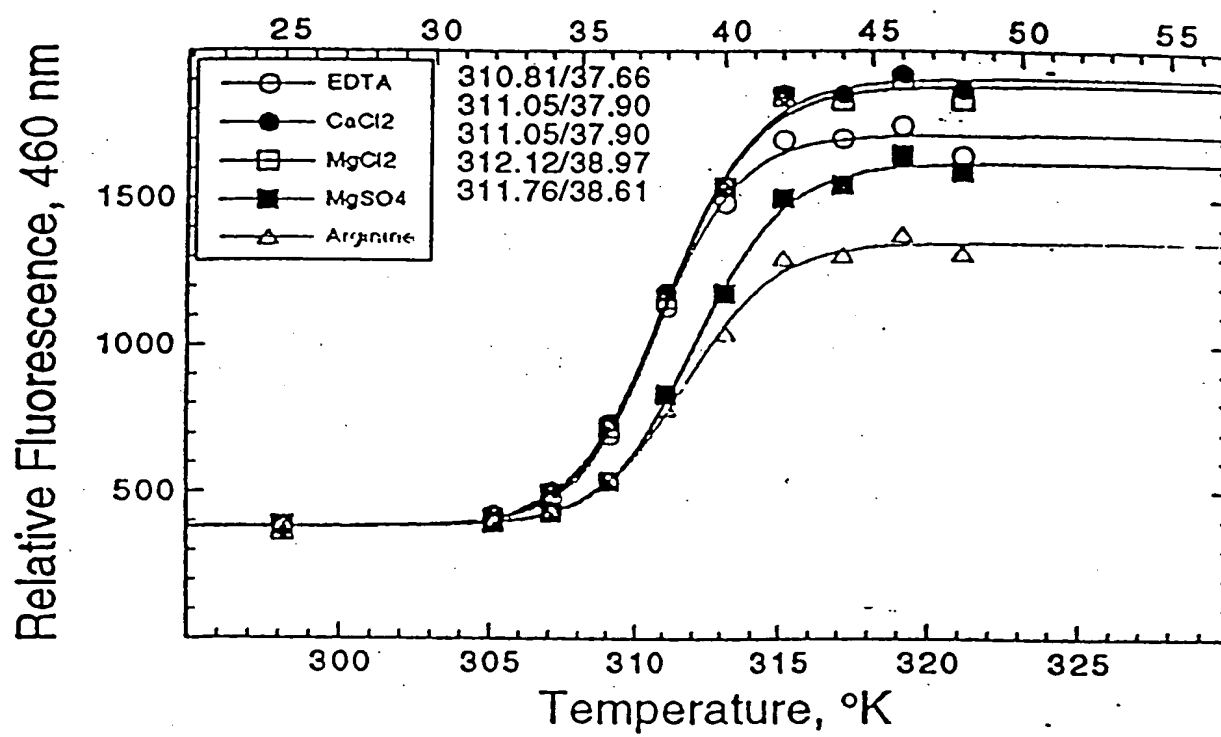


FIGURE 21

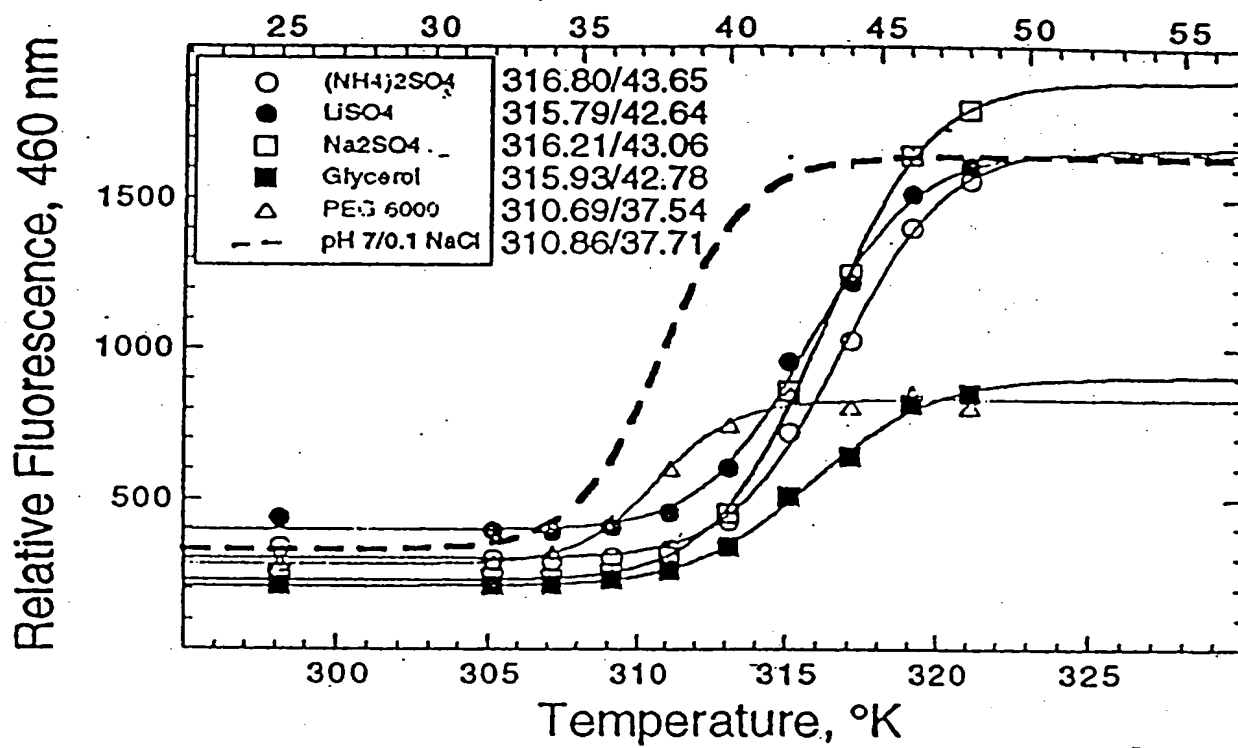


FIGURE 22

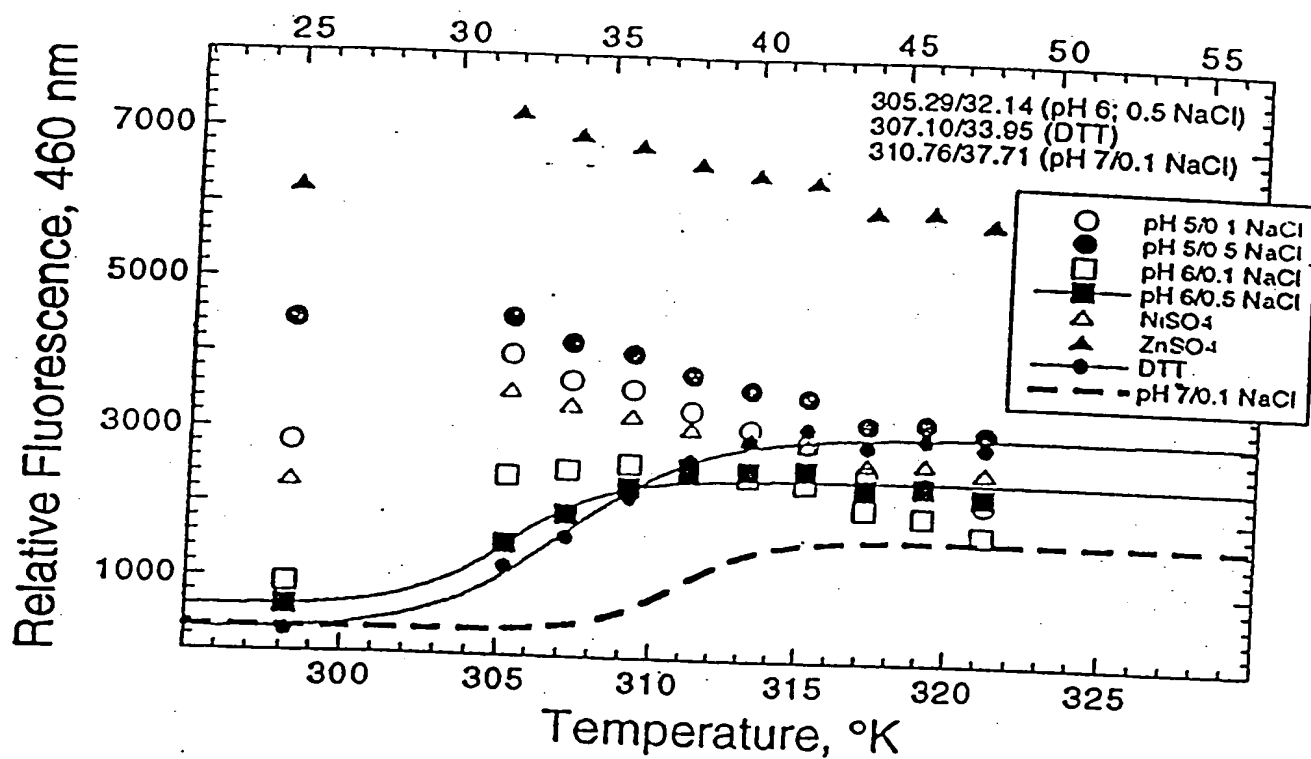


FIGURE 23

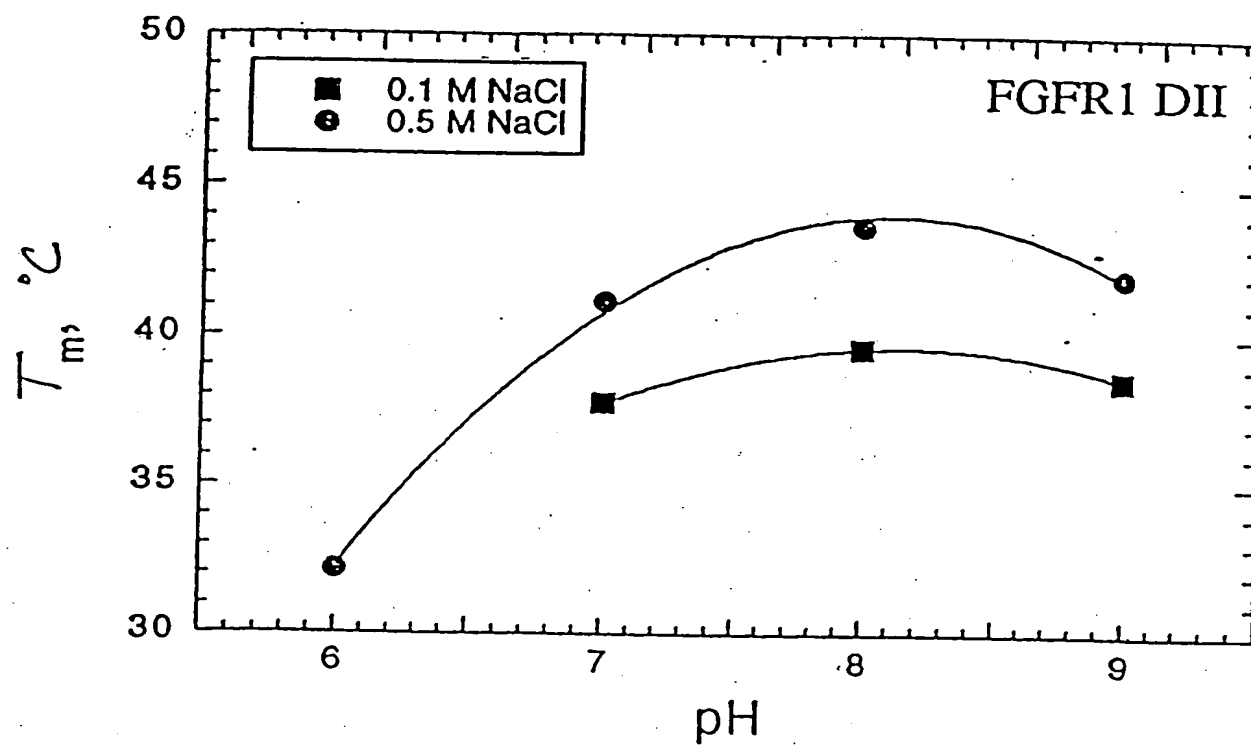




FIGURE 24

FGFR1 DII

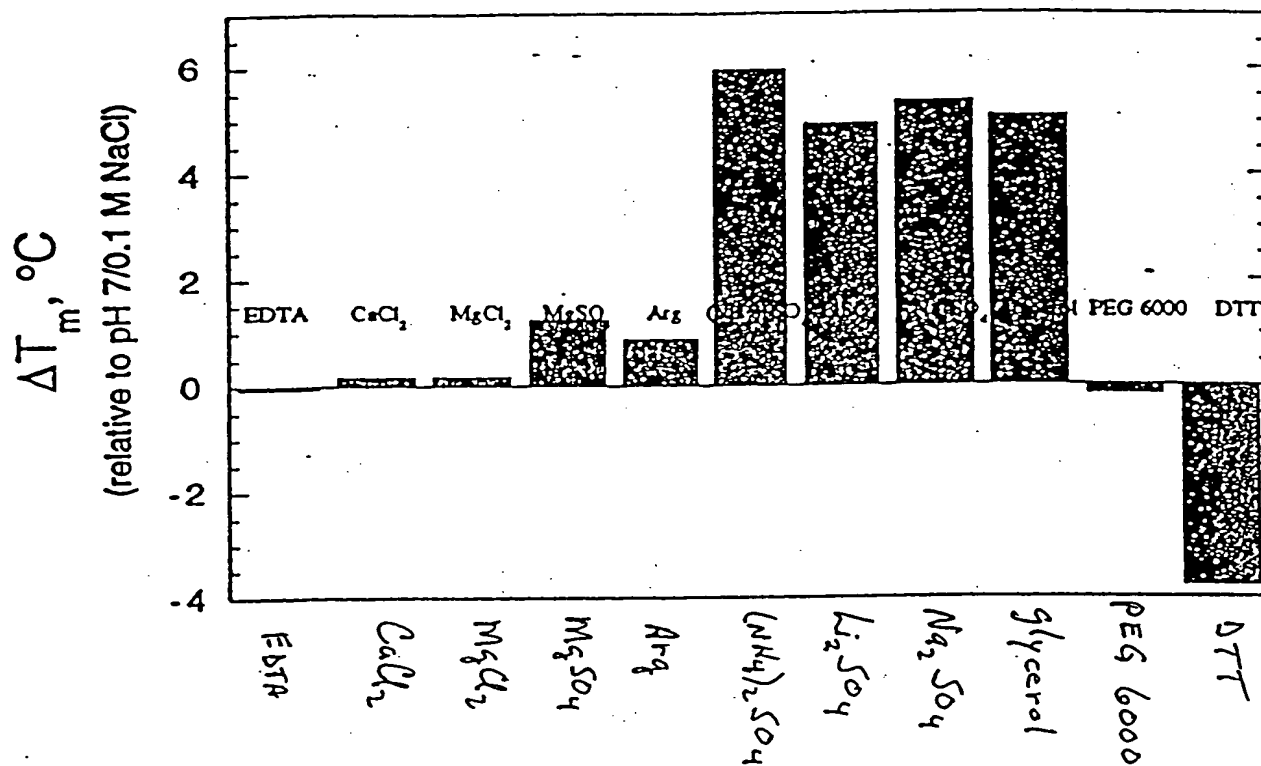


FIGURE 25

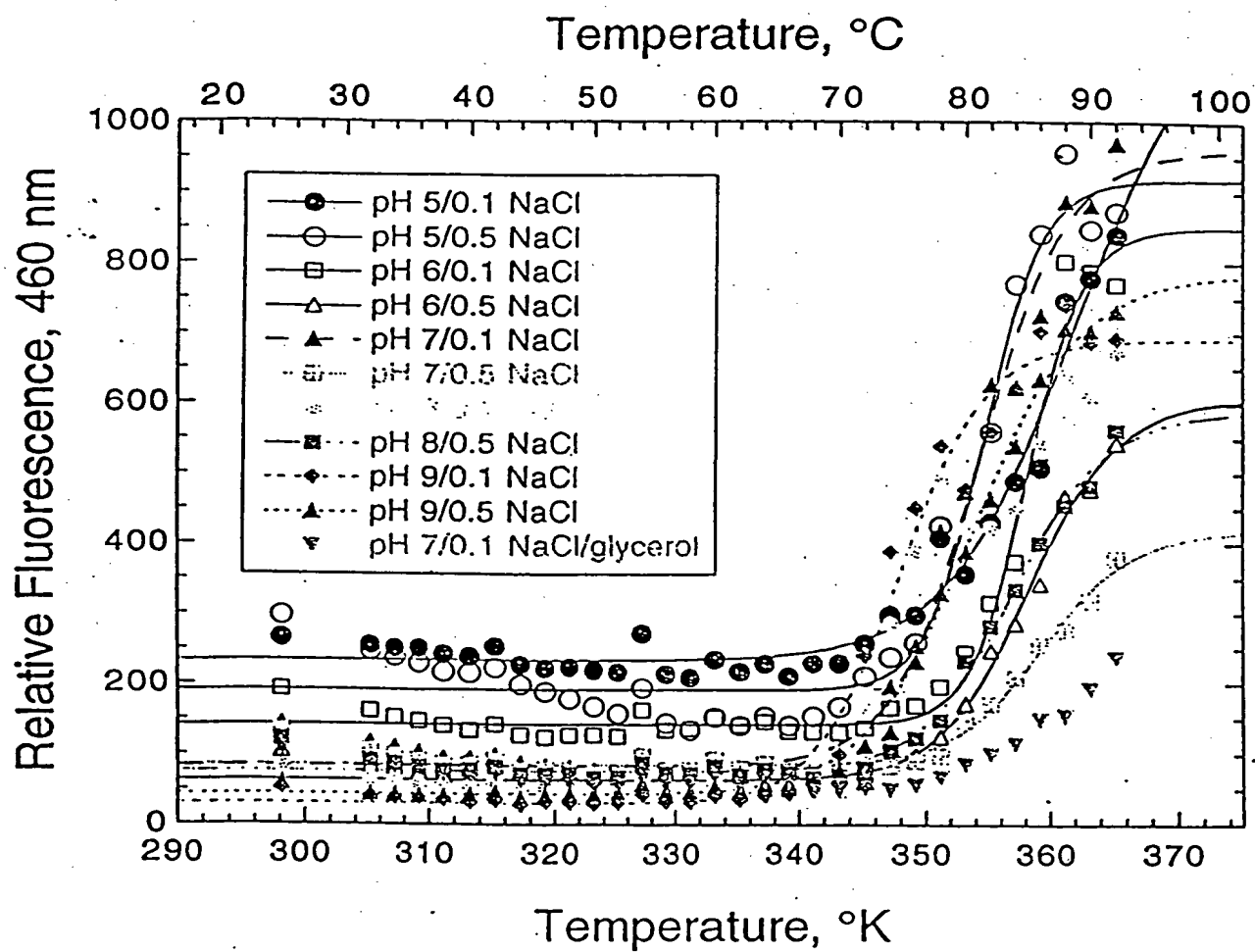
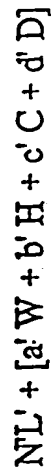
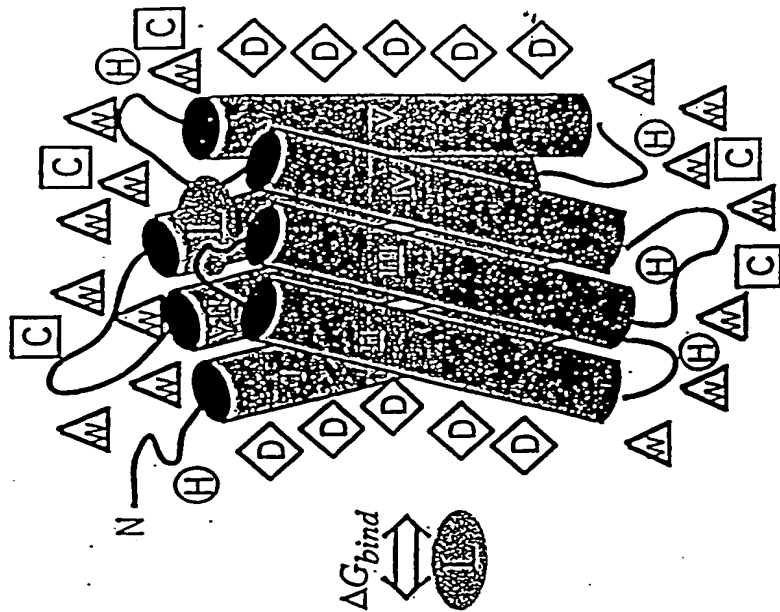
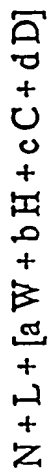
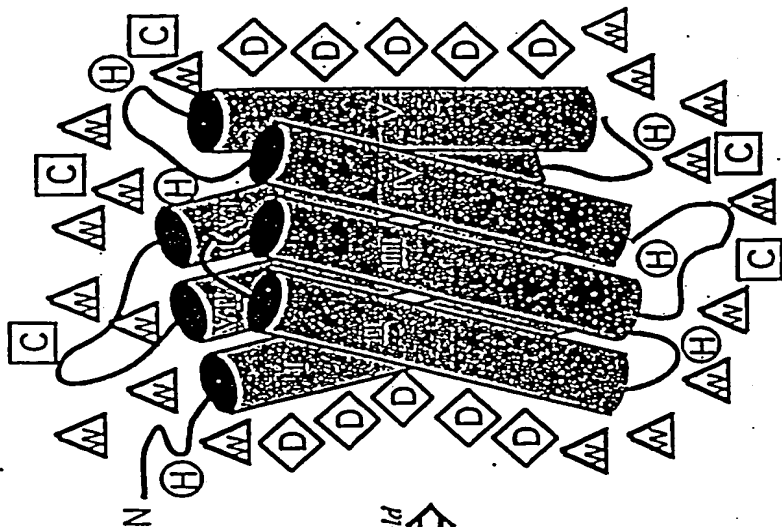


FIGURE 26

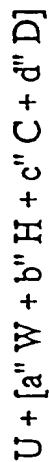
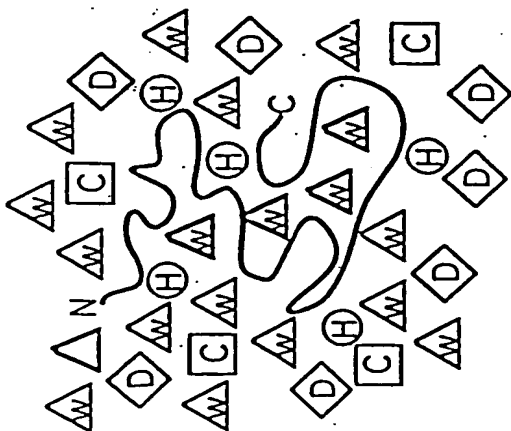
Native-Ligand Complex  
N'L'



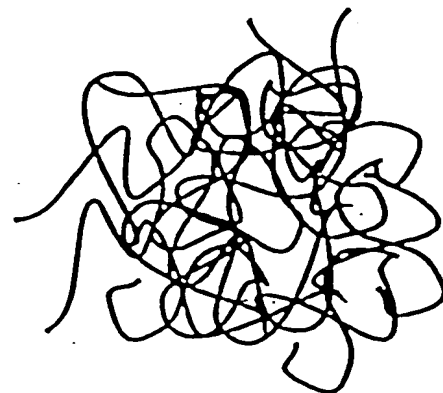
Native State  
N



Unfolded State  
U



Self-Aggregation



$$\Delta G_{fold} = \Delta G_{corif} + \sum_i \Delta g_{i,inf} + \sum_i \Delta g_{i,s} + \Delta W_{el} + (\Delta G_{bind})$$

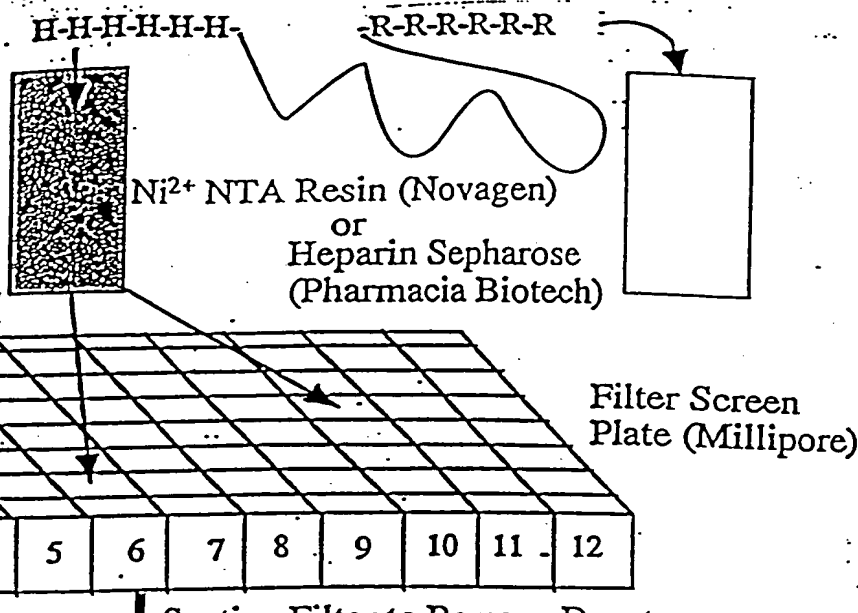
Legend	
	= Water Molecules
	= Ionizable Protons
	= Counterions or Hofmeister Salts
	= Detergent or Lipid Molecules

FIGURE 27

**Tagged Denatured Protein**

Denaturant: 6 M Gdn-HCl  
8 M Urea  
0.2% SDS

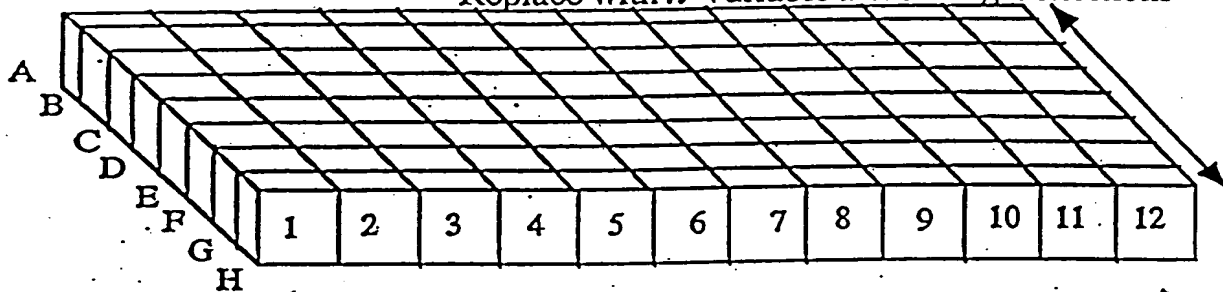
Reducing Agents: DTT, or  $\beta$ ME



Suction Filter to Remove Denaturant

**Microplate Protein Folding**

Replace with *n*-Variable Refolding Conditions



Variable X (pH, Temp., Glycerol, Detergent, [Detergent],  
Glutathione Redox Buffer, ligand or cofactor. etc.)

*Thermal shift Assay*

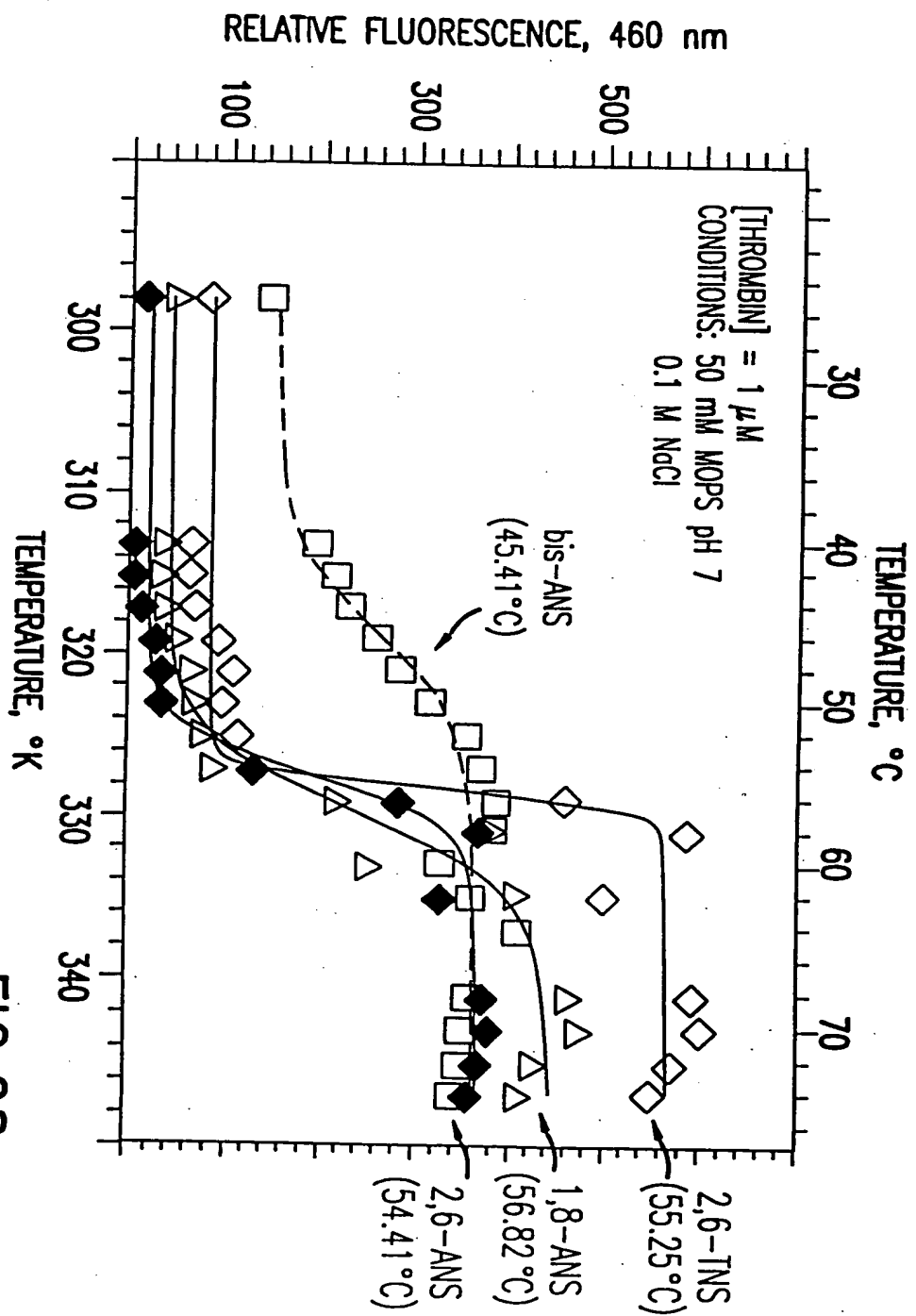


FIG.28

FIG. 29

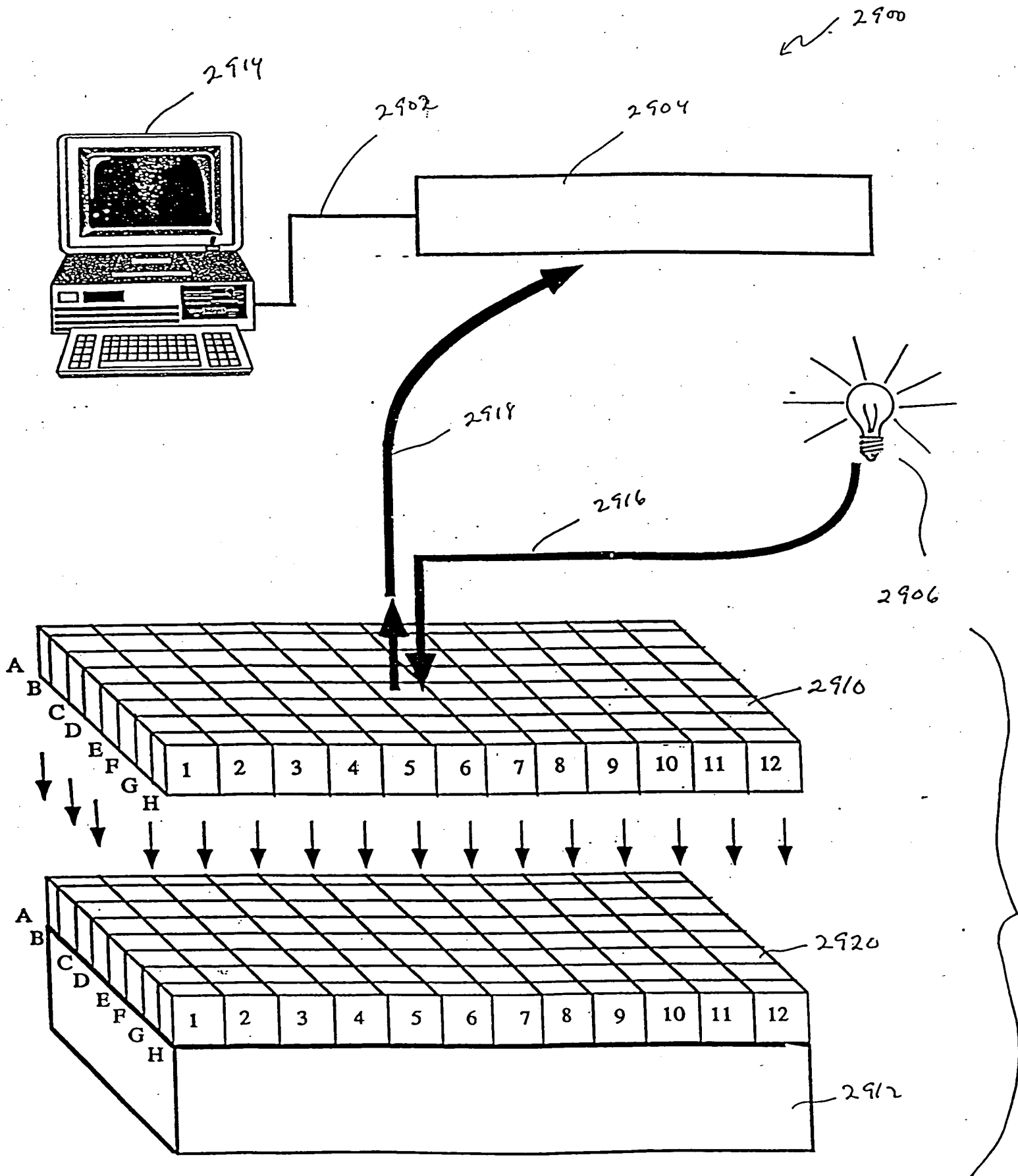


FIG. 30

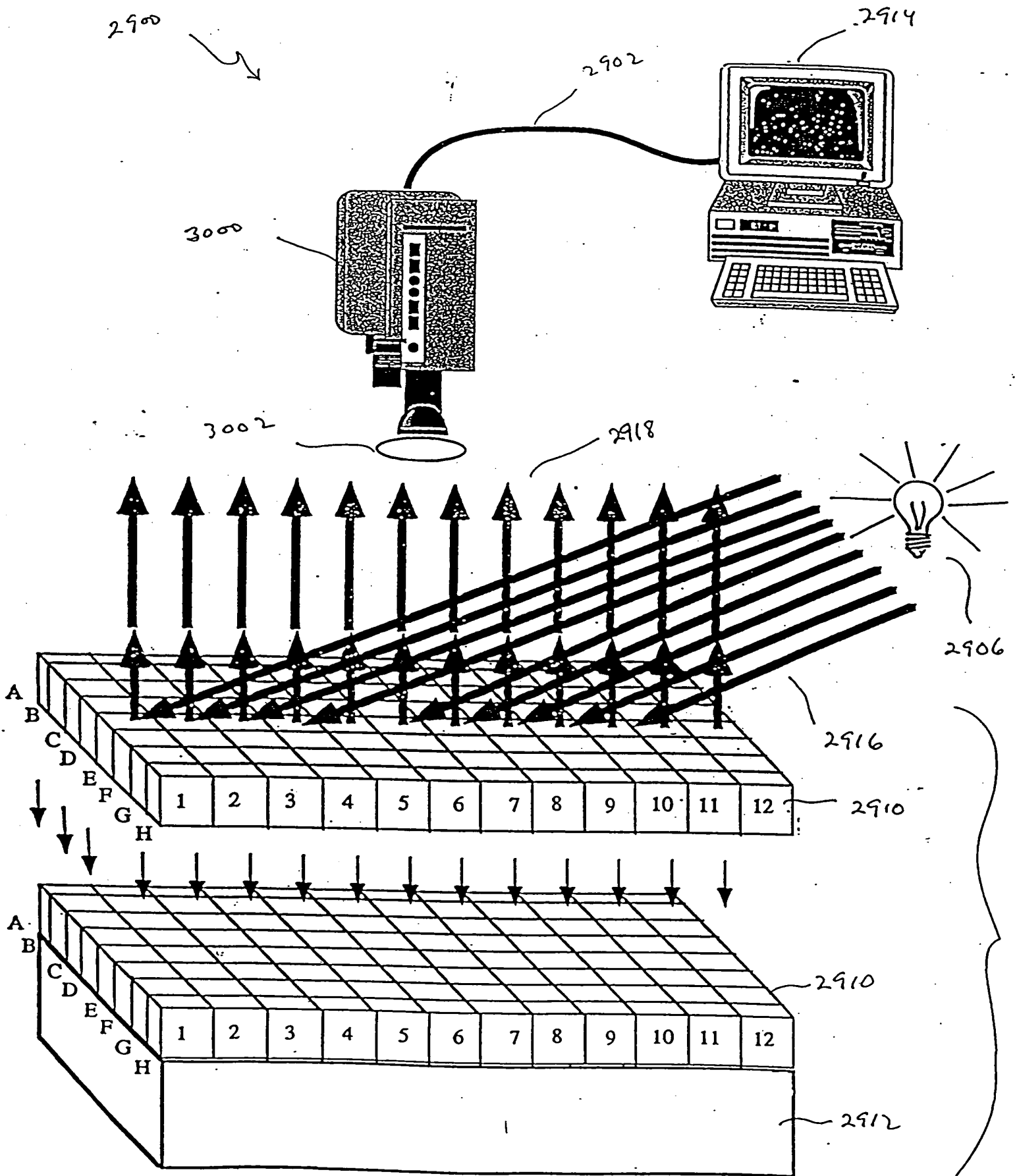


FIG. 31

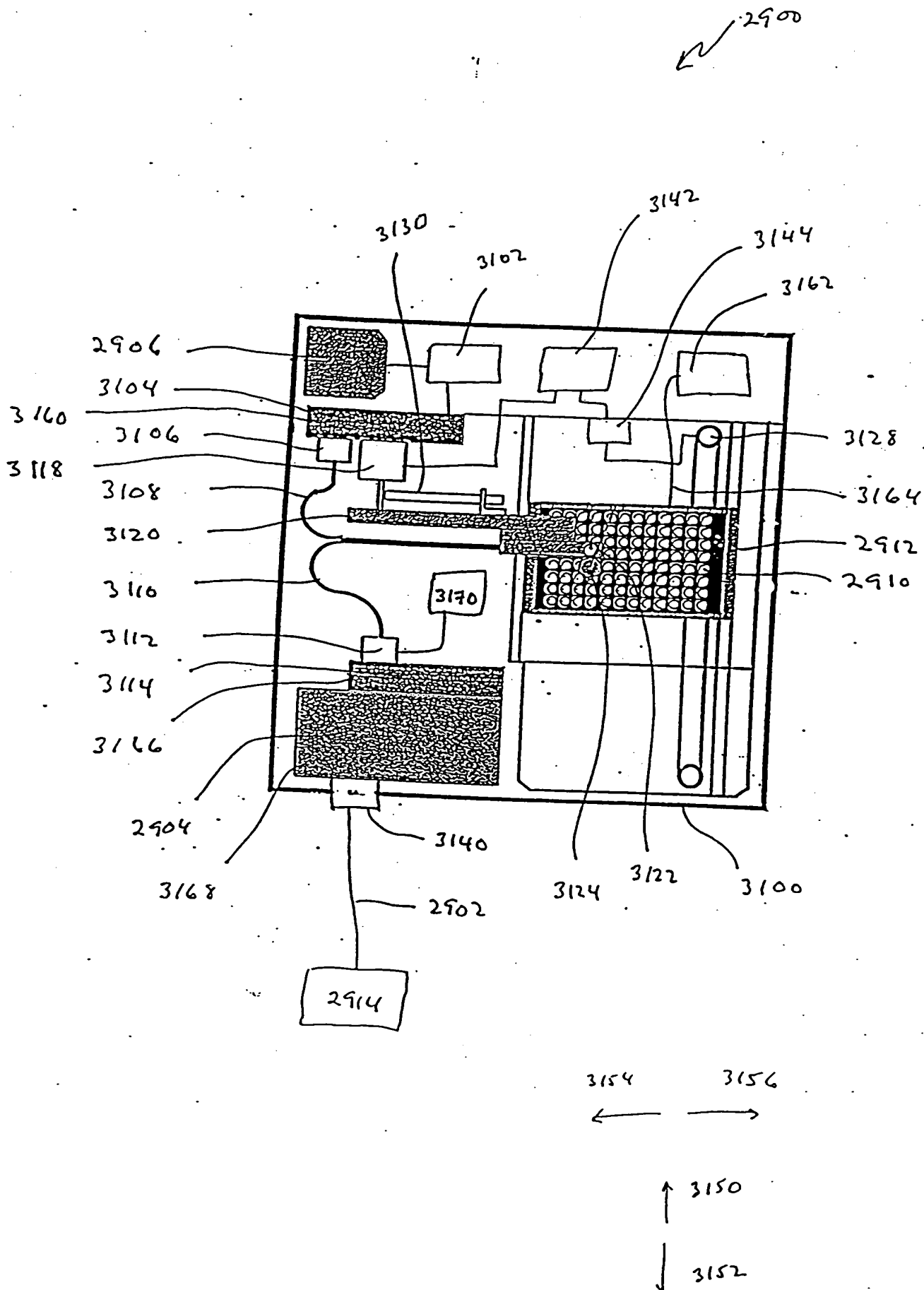




FIG. 32A

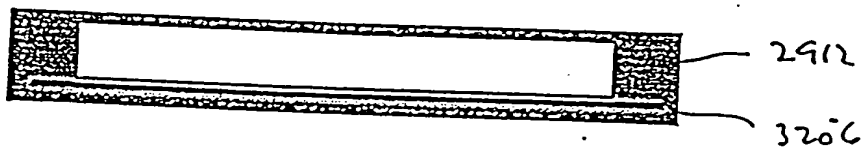


FIG. 32B

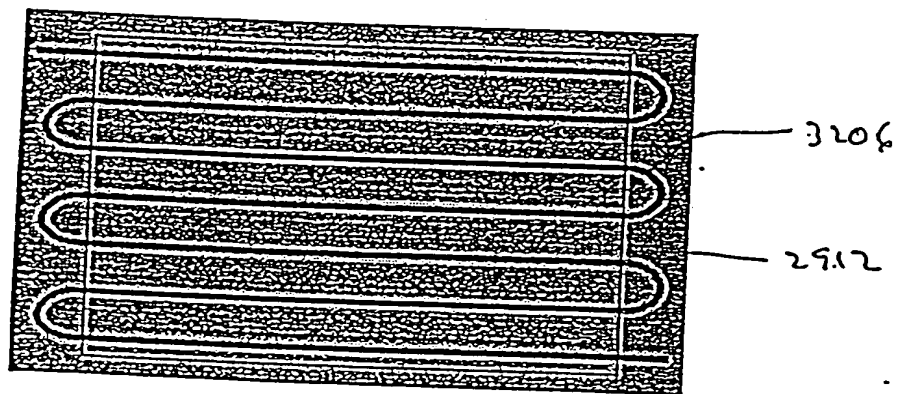


FIG. 32C



FIG. 32D



FIG. 32E

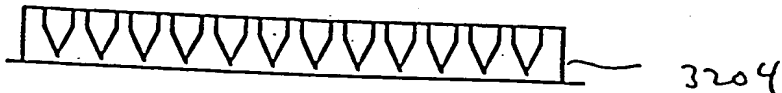


FIG. 33

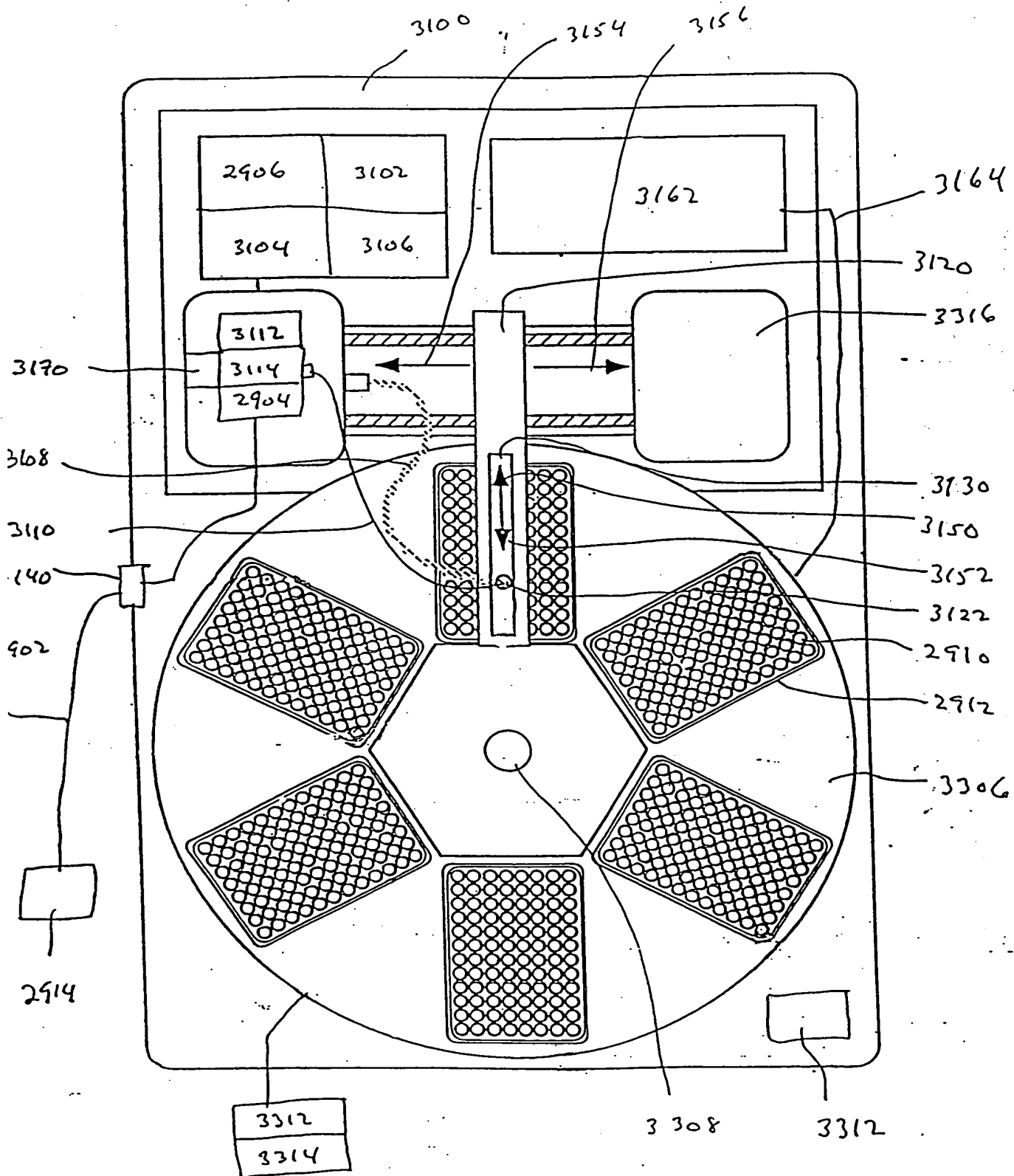


FIG. 34

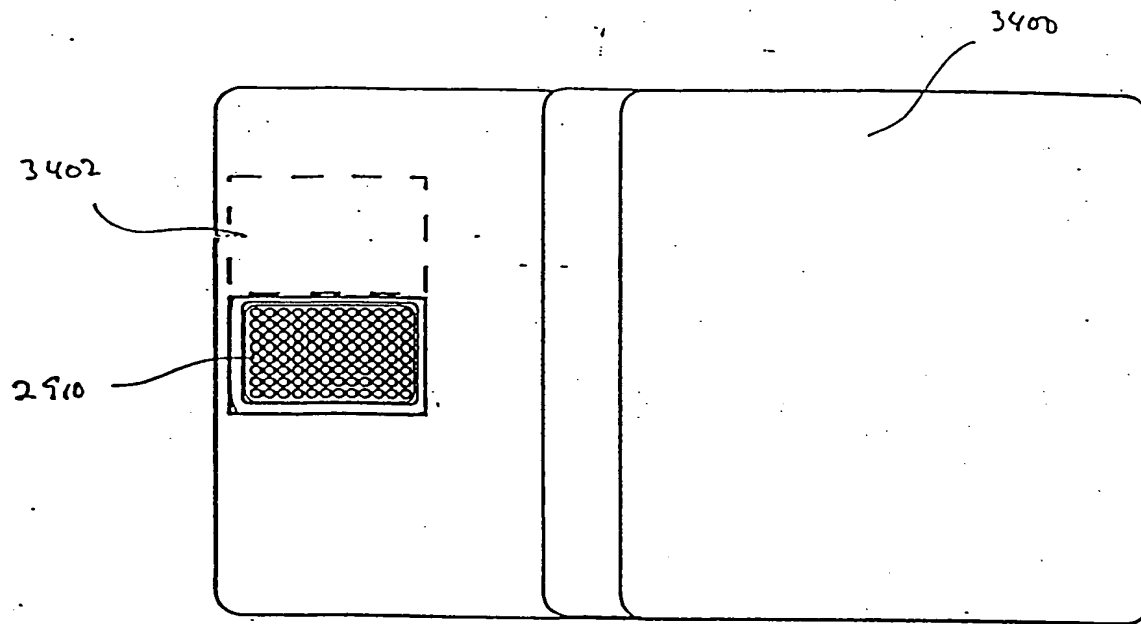


FIG. 35

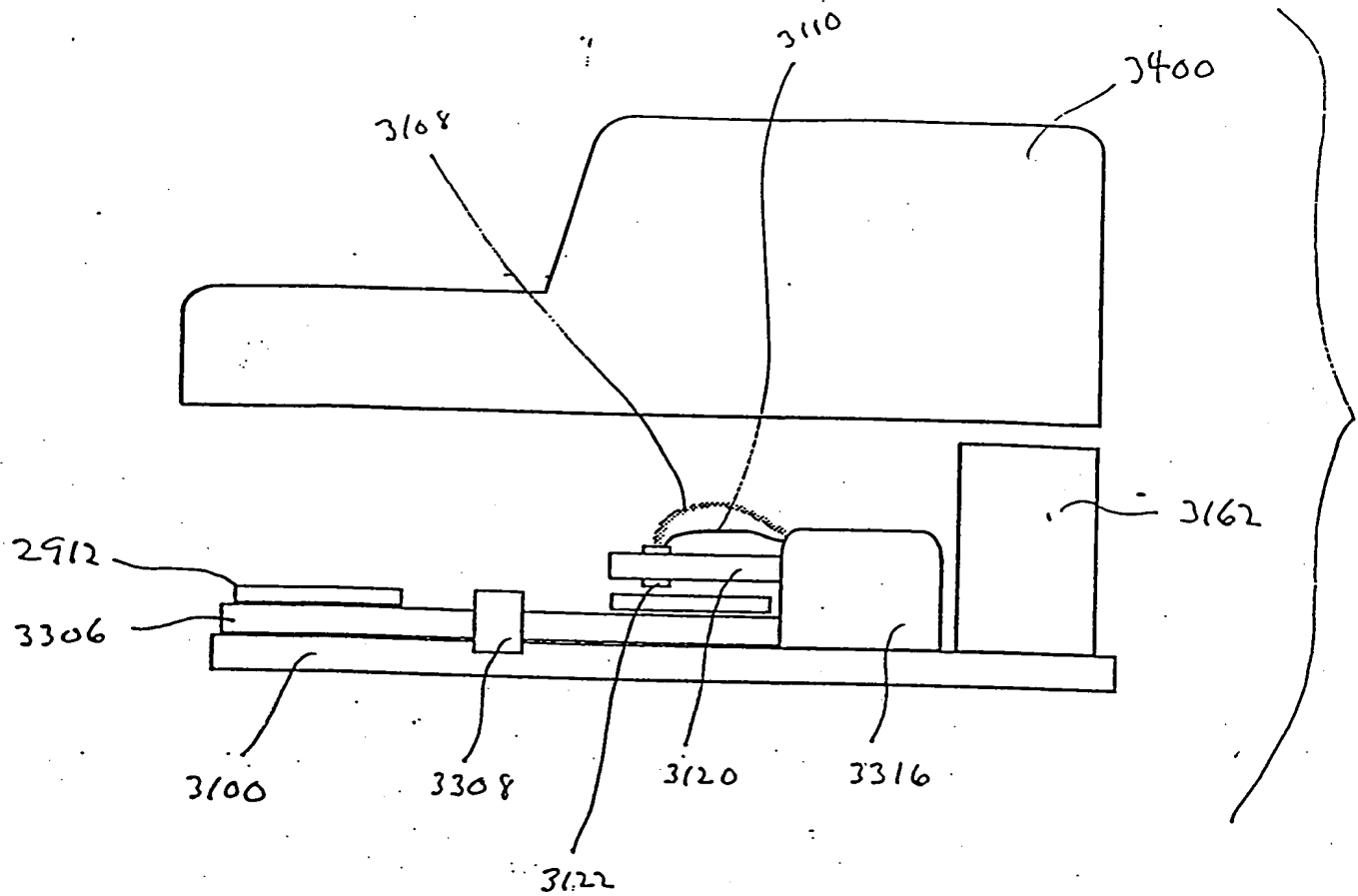


FIG. 36 A

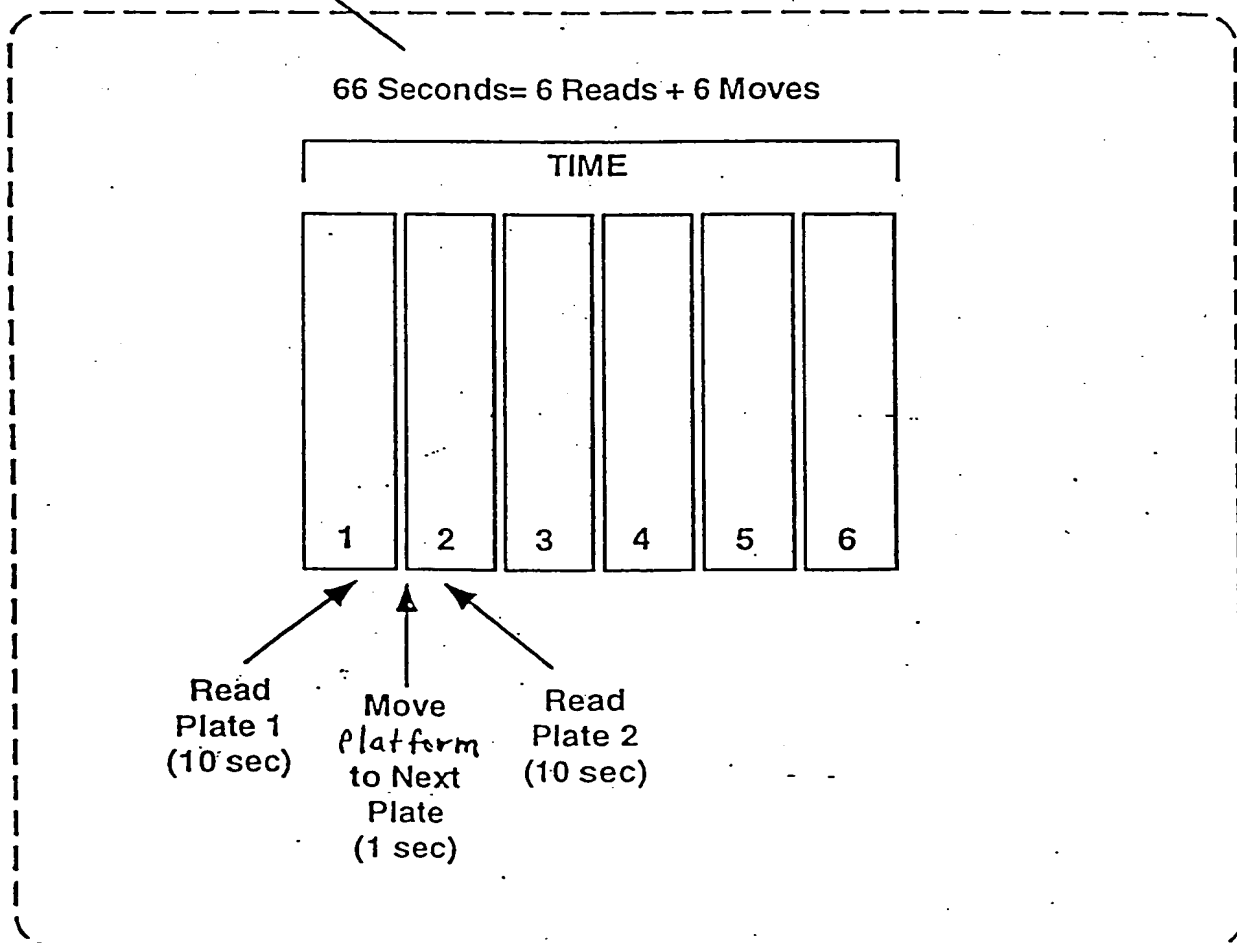
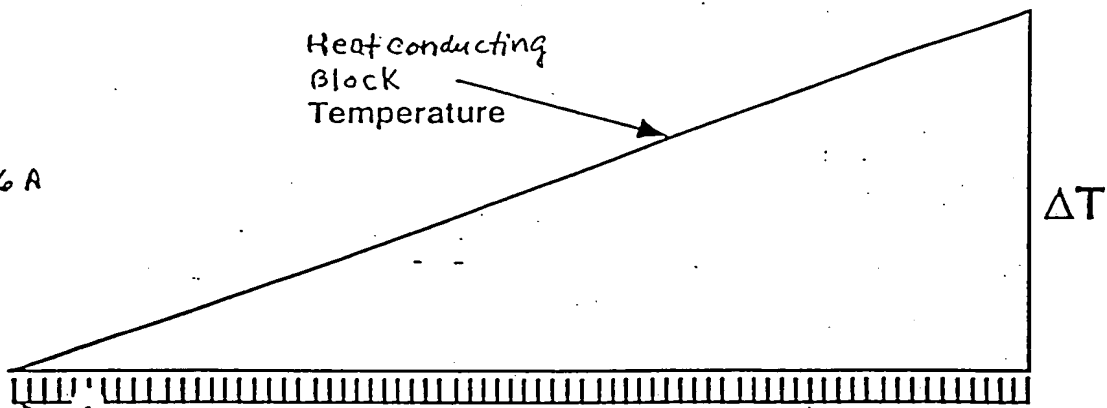


FIG. 36 B

FIG. 37

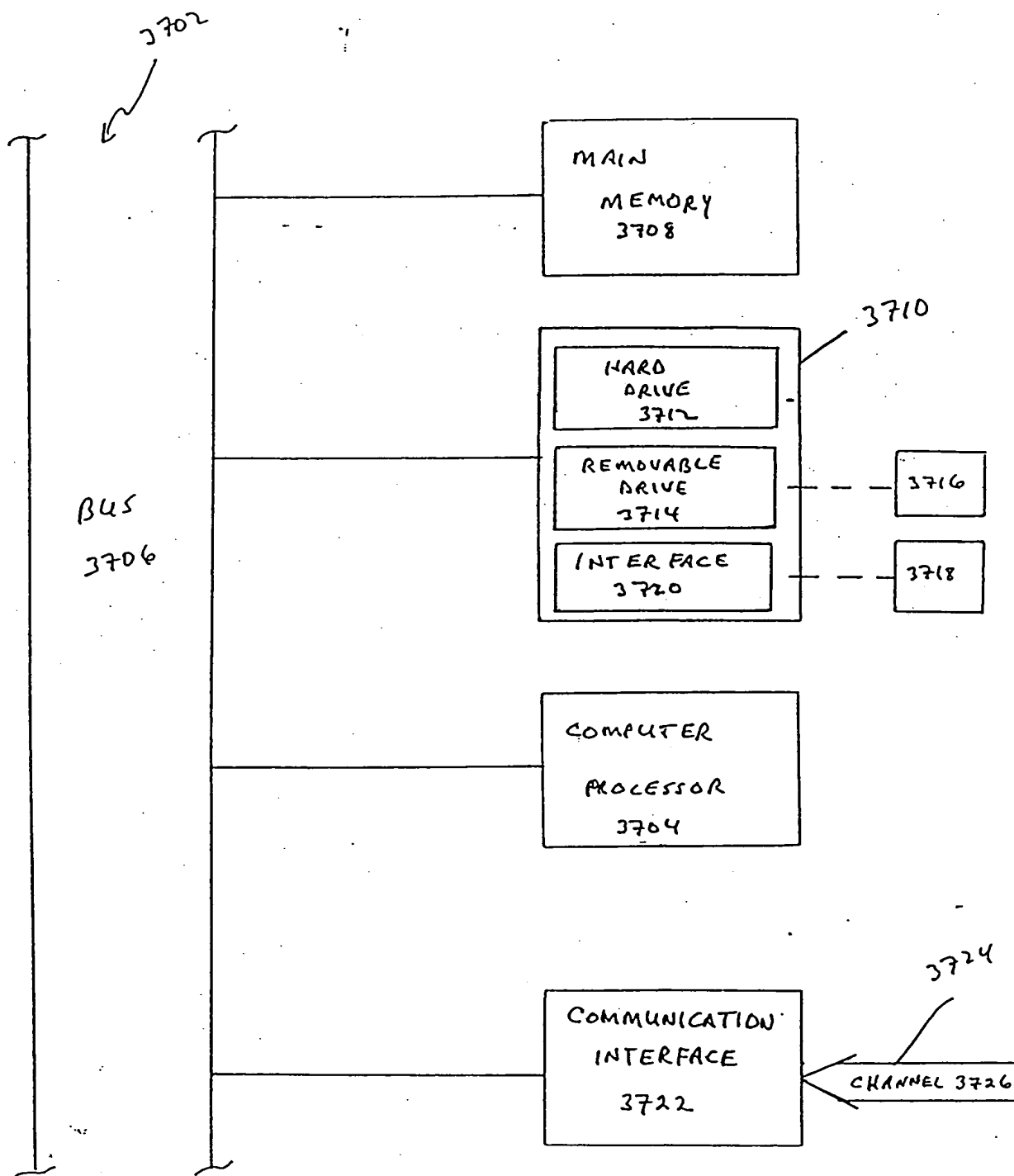


FIG. 38

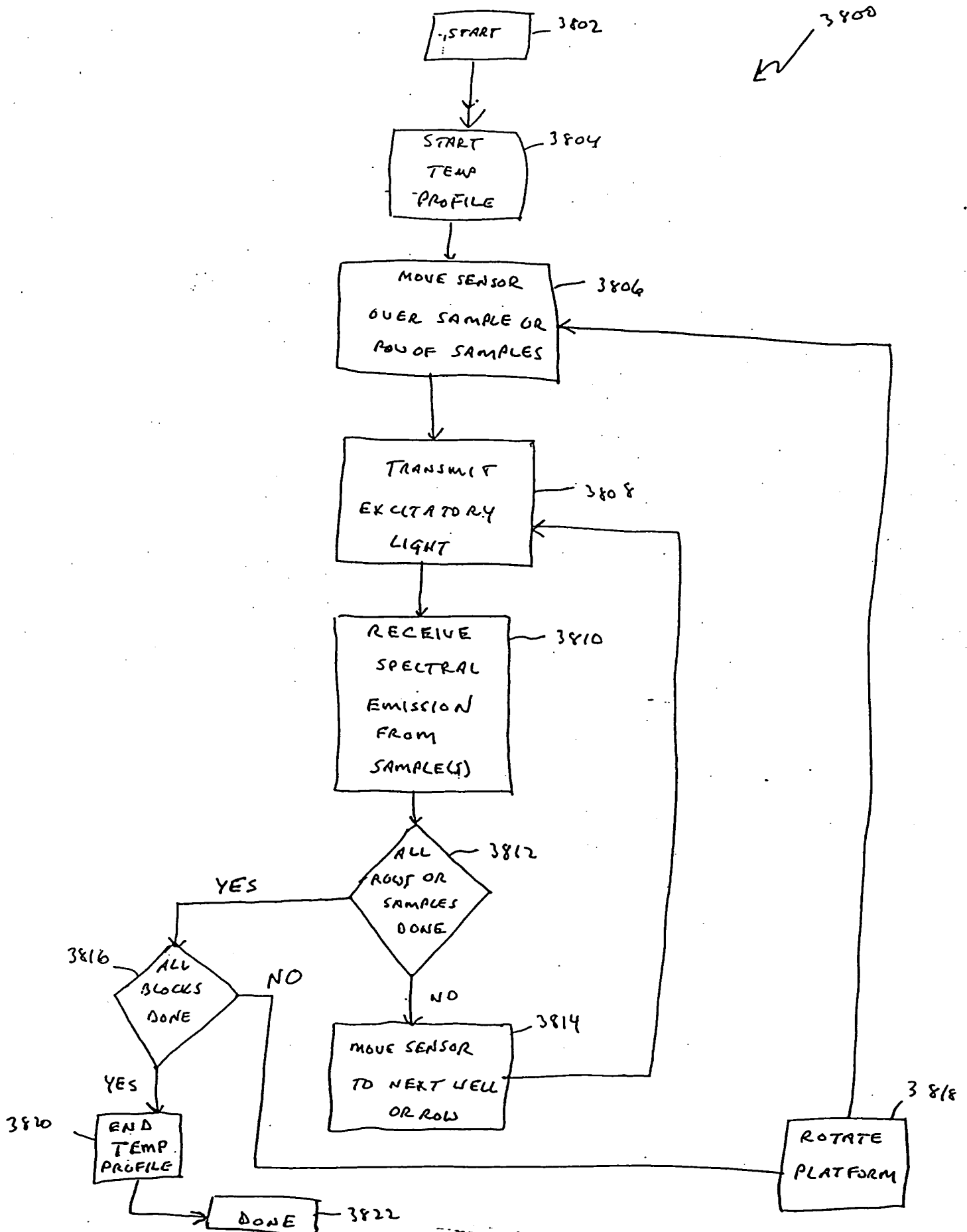


FIG. 39

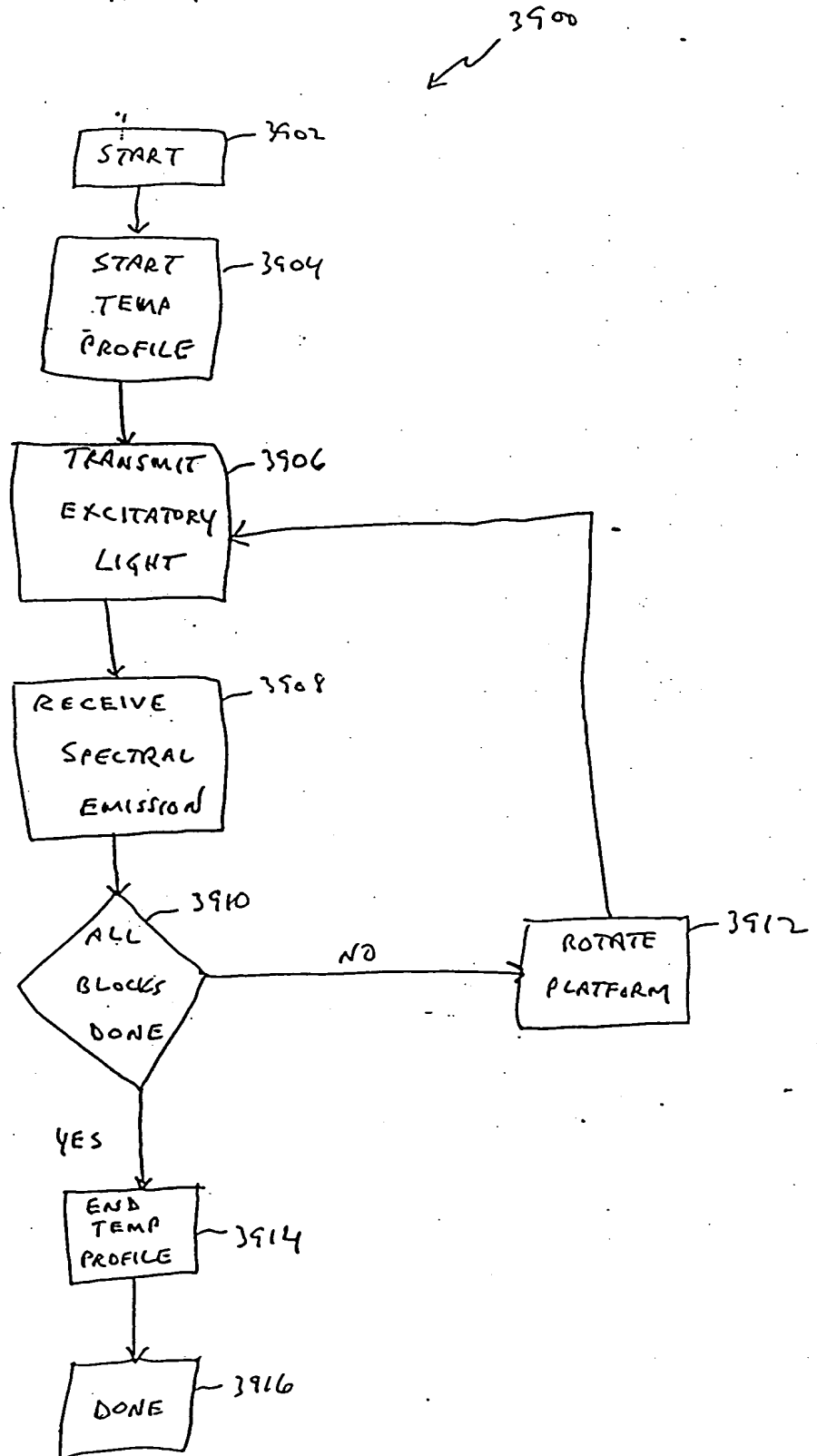




FIGURE 40

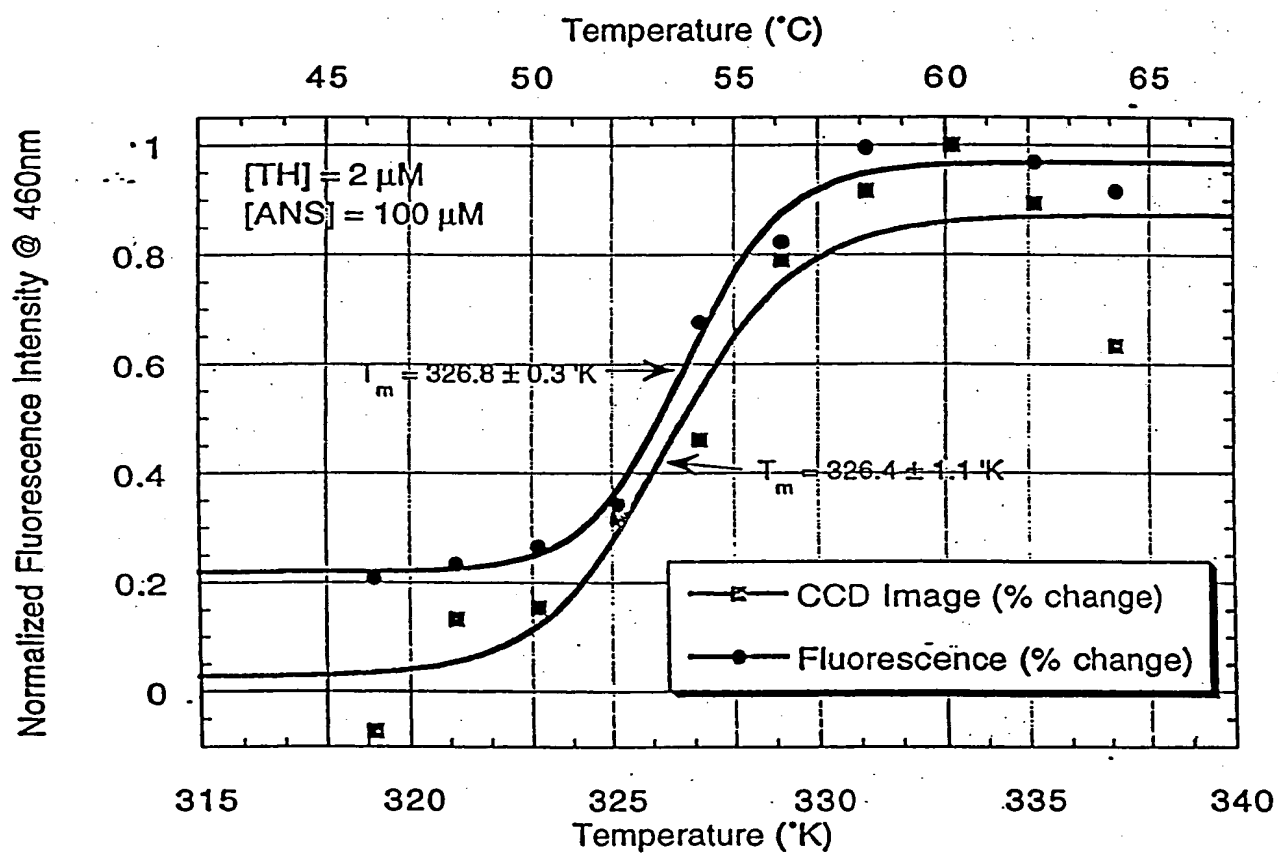
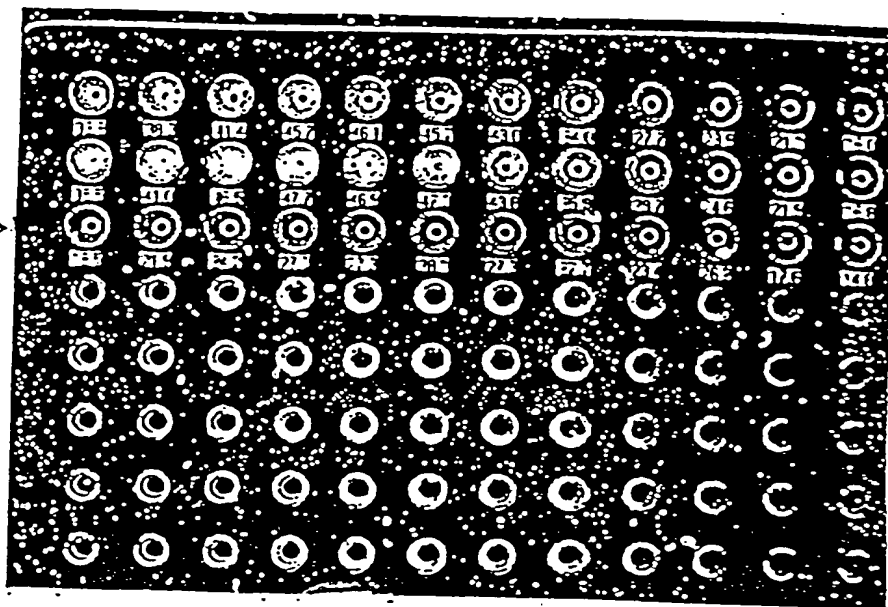


FIG. 41A

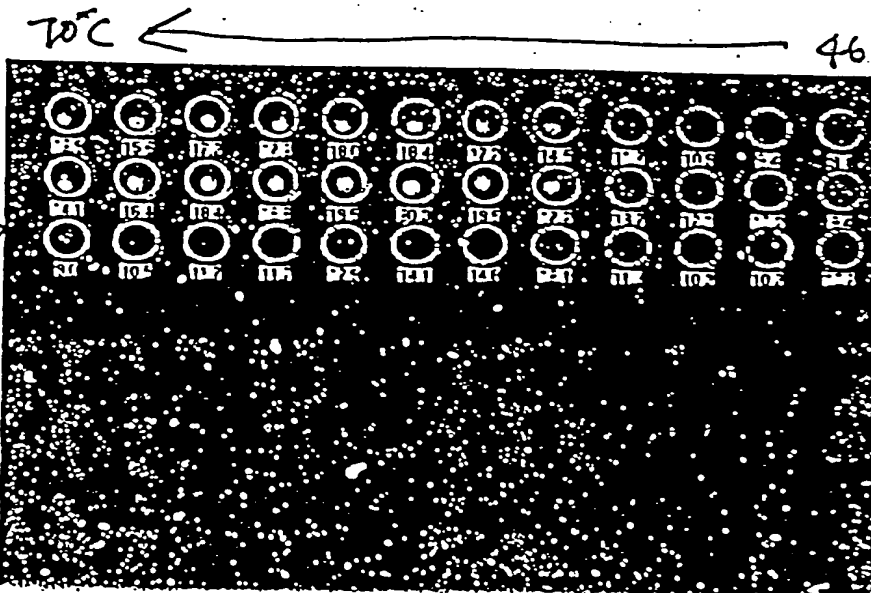
control →  
RNA/protein



66°C ← 44

FIG. 41B

control →



70°C ← 46

FIGURE 42

